



3024-119-SEQ.ST25
SEQUENCE LISTING

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Nguyen, Duc-Quang
Calabrese, David

<120> HIGH EFFICIENCY GENE TRANSFER AND EXPRESSION IN MAMMALIAN CELLS
BY A MULTIPLE TRANSFECTION PROCEDURE OF MAR SEQUENCES

<130> 3024-119

<140> 10/595,495

<141> 2006-04-24

<150> PCT/EP2004/011974

<151> 2004-10-22

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<151> 2004-02-06

<150> US60/513,574

<151> 2003-10-24

<160> 241

<170> PatentIn version 3.3

<210> 1

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(320)

<223> MAR of human chromosome 1, nt from 36686 to 37008

<220>

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<222> (1)..(320)

<223> MAR of human chromosome 1, genomic contig; 36686 to 37008

<400> 1

ttatattatg ttgttatata tattatatta tgttattaga ttatattatg ttgttatatt 60

atataataat attatattat atattatata ttatattata taatatataa taatattata 120

taattatata ttacattata taatatataa taatattata taattatata ttacattata 180

taatataata taatattata taataatata taattatata atatataata atattatata 240

atattatata atattatata atatataaat atataataat atatattata ttatataata 300

gtatataata ttatataata 320

<210> 2

<211> 709

3024-119-SEQ.ST25

<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(709)
<223> MAR of human chromosome 1, nt from 142276 to 142984

<220>
<221> misc_binding
<222> (1)..(709)
<223> MAR of human chromosome 1, genomic contig; 142276 to 142984

<400> 2
tacaatatat tttctattat atatattttg tattatatat aatatacaat atattttcta 60
ttatatataa tatattttgt attatatata ttacaatata ttttgtatta tataatatat 120
aatacaatat ataatatatt gtattatata ttatataata caatatatta tatattgtat 180
tatatattat atataaact atataatata ttgtattata tattatatat aatactatat 240
aatatatttt attatatatt atatataata caatatataa tatattgtat tataatacaa 300
tgtattataa tgtattatat tgtattatat attatatata atacaatata taataatata 360
ttataatata taataataat ataataaat aataatatat attgtattat atattatata 420
atacaatata taatatattg tattatatat attttattac atataatata taatacat 480
tataatatat tttgtattat atataatata ttttattatg tattatagat aatatatttt 540
attatatatt atatataata caatatataa tatattttgt attgtatata atatataata 600
caatatataa tatattgtat tatatataat attaatatat tttgtattat atatttatat 660
tttatattat aattatgttt tgcattatat atttcatatt atatatacc 709

<210> 3
<211> 409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(409)
<223> MAR of human chromosome 1, nt from 1368659 to 1369067

<220>
<221> misc_binding
<222> (1)..(409)
<223> MAR of human chromosome 1, genomic contig; 1368659 to 1369067

<400> 3
tacacataaa tacatatgca tatatattat gtatatatac ataaatacat atgcatatac 60
attatgtata tatacataaa tacatatgca tatacattat gtatatatac ataaatacat 120
atgcatatac attatgtata tatacataaa tacatatgca tatacattat gtatatatac 180

3024-119-SEQ.ST25

ataaatacat atgcatatac attatgtata tatacataaa tacatatgca tatacattat	240
gtatatatac ataaatacat atgcatatat tatatacata aattatatta tatacataat	300
acatacatat atattatgtg tatatatata taaatacata tacatatatt atgtgtatat	360
atacatgata catatacata tattatgtat atatatacat aaatacata	409

<210> 4
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(394)
 <223> MAR of human chromosome 1, genomic contig; 2839089 to 2839482

<400> 4	
tatgtatata tacacacata tgtatatata cacacatatg tatatacgta tatatgtata	60
tatacacaca tatgtatata cgtatatatg tatatatata cacatatgta tatacgtata	120
tatgtatata tacacacata tgtatatatg tatatatgta tatatacaca catatgtata	180
tatgtatata tacacacata tgtatatatg tatatatgta tatatacaca catgtgtata	240
tatatataca catatgtata tatgtatata tacacacata tgtatatatg tgtatgtata	300
tatacacaca tatgtatata tacacacata tatgtatata tacacacata cttatatata	360
cacatatata tgtatatata cacatatgta taca	394

<210> 5
 <211> 832
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(832)
 <223> MAR of human chromosome 1, genomic contig; 1452269 to 1453100

<400> 5	
tatattacta tatatacaat atacatatta ctatatatac catgtattac tatatatatc	60
tactatatat attactatat atacaaaata tatattacta tatatacaat atacatatta	120
ctatatatac catatattac tatatatatc tactatatat attactatat atacaaaata	180
tatattacta tatatactat atattactgt atatacaata tatattacta tatatatact	240
atatattact atatatacac tatatattac tatatatata caatatatat attactatat	300
atacacaatg tatataacta tatatacaat atatattact atatatacta tatatattac	360
tatacatact atatattact ctatatatac aatatatata ttacaatata tactacatat	420
tactacatat actttatata ttactatata tactatatat tactgtatat acaatatata	480

3024-119-SEQ.ST25

ttactaaata tacacaatat atattactat atatacacia tatatatatt actatatata	540
cacattatat atgactatat atacacacta tatatattac tatatatata caatatataa	600
ctatatatac acagtataca tattactata tatacacaa atatatatta ctatatatac	660
actatatatt actatatata cacaatatat attactctat gtatacacta tatatattac	720
tatatataca gaatatatat aactatatat acactatatt actatatata ctatatatta	780
ctatatgtac tatatatatt actatatata ctatatatta ctatatatac ac	832

<210> 6
 <211> 350
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(350)
 <223> MAR of human chromosome 1, genomic contig; 831495 to 831844

<400> 6	
aatatataat atataaatat taatatgtat tatataatat atattaatat attatattat	60
attactatat aaataatatt aatatattat attaaaatat taataaatat atcatattaa	120
atattatatt aattaaatat taataaatat attatattaa tatatttata tattaaacct	180
ataacatatg catatactta tttatatata acatgcatgt acttatttat atatacaata	240
tatatttata tattatataa tatattatat gtatttatat attatatatc atatattata	300
tgtatttata tattatatat catataatat atatatttat attatatata	350

<210> 7
 <211> 386
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(386)
 <223> MAR of human chromosome 1, genomic contig; 1447225 to 1447610

<400> 7	
acatttaatt taattatata ctgctatata taattaaatc tatatatcta tataacttat	60
aattttatttt aatttaatta tatatactat atagttatat atacatatat gtaattatat	120
atagtataat tatagtatat atgtatatat aatgtaagta aatatatagt atatatttat	180
atatactata tattttatata tatgtcttta tatatactaa tatatatata catatgtaat	240
atgtacatat ggcatatat ttatagtgtat tatatacata tatgtaatat atatagtaat	300
atgtaaatat atagtacata ttttaattata tggtaatatata tacacatata tgtaatatgt	360

gtattatagt acatatttta tagtat

386

<210> 8
 <211> 585
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(585)
 <223> MAR of human chromosome 1, genomic contig; 4955365 to 4955949

<400> 8
 atacacacat atacacatat gtacgtatat atactatata tacacacata tacacatatg 60
 tacgtatata tactatatat acacacatat acacatatgt acgtatatat actatatata 120
 cacacatata cacatatgta cgtatatata ctatatatac acacatatatac acatatgtac 180
 gtatatatac tatatatata cacatatata catatgtacg tatatattat atatacacac 240
 atatacacat atgtacgtat atatactata tatacacaca tatacacata tgtacgtata 300
 tatactatat atacacacat atacacatat gtacgtatat atactatata tacacacata 360
 tacacatatg tacgtatata tactatatat acacacatat acacatatgt acgtatatat 420
 actatatata cacacatata cacatatgta cgtatatata ctatatatac acacatatatac 480
 acatatgtac gtatatatac tatatatata cacatatata catatgtacg tatatatatac 540
 atatataccc atacacatac gtatatatgt acatatatat acgta 585

<210> 9
 <211> 772
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(772)
 <223> MAR of human chromosome 1, genomic contig; 5971862 to 5972633

<400> 9
 agtaaacata tatatagtaa atatatatag tgtatatata gtaaatatat atagtgcata 60
 tatatagtcg atatatatag tgtatatata gtaaatatat agtgtatata tatagtaa 120
 atatatatgtg tatatatagt aaatatatat agtaaatatata tatatactat atatagtaaa 180
 tatatatata ctatatatag taaatatata tatagtatat atatagtaaa tatatatata 240
 gtatatatat agtaaatatata tatatagtat atatatatagta aatatatatata tagtatatat 300
 agtaaatatata tatagtatat atatagtaaa tatatatata gtatatatat agtaaatatata 360
 tatatagtat atatatatagta aatatatatata tagtatatat atagtaaata tatatagtat 420
 atatatatagta aatatatatata gtatatatat agtaaatatata tatagtatat atatagtaaa 480

3024-119-SEQ.ST25

tatatataca ctgtatatat atagtaaata tatatacact gtatatatat agtaaata	540
tatacactgt atatatatag taaatatata tacactgtat atatatagta aatatatata	600
cactgtatat acatagtaaa tatatataca ctgtatatac atagtaaata tatatacact	660
gtatatacat agtaaata tatacactgt atatacatag taaatatata tacagtgtat	720
atacatagta aatatatata cagtgtatat acatagtaaa tatatataca gt	772

<210> 10
 <211> 304
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(304)
 <223> MAR of human chromosome 1, genomic contig; 6221897 to 6222200

<400> 10	
atatataata tatataatta tattatatat aatatataat atatataatt atattatata	60
ttatatataa tatatttatat attatatata taatatatat tatatattaa atatatatta	120
tatatataat atatattata tattaaatat atattatata tataatatat attatatata	180
atatatataa tatatattat atatatatta tatatttatat atatatatta tatatatata	240
atatatataa tatatattat atataatata tattatatat atataatata tataatatat	300
atta	304

<210> 11
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(311)
 <223> MAR of human chromosome 1, genomic contig; 9418531 to 9418841

<400> 11	
tatatataat atttatatat aatattcatg ttttatata taaatattta tatatttata	60
tataaatatt tatatattta tatataaata tttatatatt tatatataat atttatacat	120
tatatataat atttatatat tatatataat atttatatat aatatttata tattatatat	180
aatatttata ttttatatg tataatatat attttatata tgtatgtata atatatattt	240
tatatatgta tgtataatat attttatata tgtatgtata atatattatt atatataata	300
tataatttat a	311

<210> 12

3024-119-SEQ.ST25

<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(302)
<223> MAR of human chromosome 1, genomic contig; 15088789 to 15089090

<400> 12
atataatata tatattatat atataaatat atataaatat ataacatata tattatatat 60
aatatatatat aatatataaa catatatatt atatatataa atatatataa atatataaca 120
tatatattat atatataaat atatataaat atataacata tatattatat atataaatat 180
atattatata tttatatata taatatatat aatatataaa tatatattta tatatataat 240
atatataaat atataatata tatatttata tataatatat ataaatatat aatatataat 300
at 302

<210> 13
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(461)
<223> MAR of human chromosome 1, genomic contig; 6791827 to 6792287

<400> 13
tatataatat atatttatata tacacatata taatatatat tatatatata catatataat 60
atatattata tatacacata tataatatat attatatata cacatatata atatatatta 120
tatatacaca tatataatat atatttatata tacacatata taatatatat tatatatata 180
catatataat atatattata tatacacata tataatatat attatatata cacatatata 240
atatatatta tatatacaca tatgtaatat atattatata cacacatata atatatatta 300
tatacacata tataatatat attatatata catatataat atatattata tatacacata 360
tataatatat attatatata cacatatata atatatatta tatatacaca tataatatat 420
aatatatata catatataat atatatatta tatatgcaca t 461

<210> 14
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(572)
<223> MAR of human chromosome 1, genomic contig; 163530 to 164101

3024-119-SEQ.ST25

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<400> 14
atattataat tatatatatt atatataatt atataaaata tatattataa ttatatatat      60
tttatataat atatataatta taattaatat attatatata atatatatat tatatataat    120
atatataatta tatatatatt atataatata tataatatat ataatatata atataatata    180
tatattatat ataatatata atatatatata tatattataa tataatatat ataatatata    240
atataatata tataatatat aatataatat ataatatata atatatatata tatataatat    300
aatatataat atatataata tataatatata tatataatat atataatata ttataatatata  360
atatatatata tatataatat aatatatata atatataata taatatataa tatataatat    420
atatttaata tattttattaa ttatttggtta tatatttatt aatatataat atataatata    480
tttaatatat tataactata tattatatta taattatata tattatatat atacaattat    540
aattatatat tatatatact tataatatat at                                     572

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<210> 15
<211> 357
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(357)
<223> MAR of human chromosome 1, genomic contig; 1842332 to 1842688

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<400> 15
tatatctata tatatctata tatatataat atagataata tctatatata taatatagat      60
aatattatct atatataata tagataatat tatctatata taatatagat aatattatct    120
atatataaaa ttatattata tctatatata ttatatatat aaaattatat tatatctata    180
tataatatag ataatatcta tatataaata gataatatct atatatatata tatagatatt    240
atctatatta tagatataga taatattatc tatattatag atattatcta tatataatat    300
agataatatt atctatatta tatatataat atatctatat tatctataat attatct      357

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<210> 16
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<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(399)
<223> MAR of human chromosome 1, genomic contig; 2309560 to 2309958

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<400> 16
attatatata atatataatta tatattatat atatcaagca gcagatatata tatataatat    60
atataatata tataatatat attgtatatt atataatata taatatatat aatatatatt    120

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3024-119-SEQ.ST25

gtatattata taatatataa tatatataat atatattgta tattatataa tatataatat	180
atataatata tattgtatat tatataatat ataatatatg taatatatta tgtaatatat	240
tatataatat atattatata ttatatataa tatatattat atataatata tattacataa	300
tatattacat atattacgta atatatgtta tatattacat ataatatata acatatatta	360
cgtaatatat gtaatatatt acatataata tatacatta	399

<210> 17
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(394)
 <223> MAR of human chromosome 1, genomic contig; 2231759 to 2232152

<400> 17	
ataataactt ataaattata tacttatata tacttataaa ttataactt atatatactt	60
ataaattata tacttatata tacttataaa ttataactt atatatactt ataaattata	120
tacttatata tacttataaa ttataactt atatatactt ataaattata tacttatata	180
tacttataaa ttataactt atatataatt ataaattata tacttatata taattataaa	240
ttataactt atatataatt ataaattata tacttatata taattataaa ttataactt	300
atatataatt ataaattata tacatatata taattataaa ttatatacat atataattat	360
aaattatata catatataat tataaattat atac	394

<210> 18
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(387)
 <223> MAR of human chromosome 1, genomic contig; 7406524 to 7406910

<400> 18	
tatattatat ataatatata ttatatataa tataaataat atatattata tataatatat	60
aaataatata taatatataa ataatatata atatataata tataaataat atataatata	120
taacatataa ataatatata taatatataa ataatatata taatatataa ataatatata	180
taatatataa aaatatataa tatataatac atatataaat aatatattat attatatatg	240
atacataata tattatatat aatatattat atgatacata atatattata tagaatatat	300
tatatgatac ataatatatt atatagaata tattatatga tacataatat attatatgat	360

acataatata ttatatataa tatatta

387

<210> 19
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(370)
 <223> MAR of human chromosome 1, genomic contig; 9399572 to 9399941

<400> 19
 catatatata tatatacaca tatatacaca tatatatata catacatatg tacacatata 60
 tatacacata tgtatacaca tatatacaca tatatacaca catatatata catatatata 120
 cacatatata cacatatata cacatatata cacatatata catatatata catatatata 180
 tatatacaca tatatataat atacacacat atatatacac atatatacac acatatatac 240
 acatatatac acatatatat acacatatat acacatatat acatatatac acatatatat 300
 acatatatac acatatatac atatatacac atatatacat atatacacac atatatacac 360
 atacatatac 370

<210> 20
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(377)
 <223> MAR of human chromosome 1, genomic contig; 12417411 to 12417787

<400> 20
 attatatata atacatataa ttatatattt atatataaat tataataaat acatataatt 60
 atatatttat atataaatta tatataataa atacatataa ttacatatat ttataaatta 120
 taataaatac atataattac atatatttat atatgaatta tatataataa atacatataa 180
 ttatatatat ttatatgtag attatatata aatatatata atttatatat ataataatat 240
 atataattta tatatataat tatatatata ataaatatat ataatttata tatataatta 300
 tatatataat aaatatataa taatatatat aatttatata tataattata tatataataa 360
 atatataataa tttatat 377

<210> 21
 <211> 1524
 <212> DNA
 <213> Homo sapiens

3024-119-SEQ.ST25

<220>

<221> misc_binding

<222> (1)..(1524)

<223> MAR of human chromosome 1, genomic contig; 1643307 to 1644830

<400> 21

tataaatata tataaatata taaatatata taaatatata aatatatata aatatatata	60
aatatataaaa aatatataaaa tatatatataaaa tatatatataaaa tatataaaaaa cataaaaaata	120
tatataaata tatataaata tataaaaaata tataaatata taaatatata aaaatatata	180
aatatataaaa tatatacata aatatatata aatatatata aatatataaaa aatatatata	240
aatatataaaa tatatatataaaa tatatatataaaa tatatatataaaa tatataaaaaa tatatatataaaa	300
tatataaata tataaaaaata tatataaata tataaatata taaatatata taaatatata	360
aatatataaaa taaatatataag tatttatgaa tatatatgaa tatataaata tataaaaaaat	420
atatataaaat atataaaatat atataaaatat ataaatatat acatatatac atatataaaat	480
aaataaatat aagtatttat gaatatatat gaatatataa atatataaaa aatatatata	540
aatatataaaa tatatatataaaa tataaatata taaaaatata taaaaatata tataaatata	600
taaatatata taaatatata aatatatata aatatatata aatatataaaa tatatatataaaa	660
tatatataaaa tatataaata tataaatata tataaatata tataaatata taaatatata	720
aatatataaata tataaatata tataaatata tataaatata taaatatata taaatatata	780
taaatatata taaatatata taaatatata aatatatata aatatatata taaatatata	840
taaatatata aatatataaaa tatataaaaaa tatataacaa tatataaata tatataaaaaa	900
tatataacaa tatataaata taaatatata taaaaatata taacaatata taaatatataaaa	960
tatatataaaa tatataaata taaatatataaaa aaatatatat aaatatataa atatatatataa	1020
atatataaaat gtataaaatat atataaaaaat atataacaat atataaaatat ataaatatat	1080
aacaatatat aaatatataa aaatatataa caatatataa atataaaatat atataaaaaat	1140
atataacaat atataaaatat aaatatatat ataaatatat aaatatataat ataaaaaata	1200
tatataaata tataaatata tatataaata tatataaata tataaatgta taaatatata	1260
taaatatata aatatataaaa aatatataaaa tatatatataaaa tatatatataaaa tatataaata	1320
taaatatata aatatatata aatatataaaa tataaatata taaacatata taaatatata	1380
taaataaaca tatataaaga tatataaaga tataaagata tataaatata taaatatata	1440
aagatatata aatatataaaa gatatatataaaa tatataaaga tatataaata tataaagata	1500
tataaatata atatataaaat atat	1524

<210> 22

<211> 664

<212> DNA

<213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(664)
 <223> MAR of human chromosome 1, genomic contig; 1398763 to 1399426

<400> 22
 acacatatat atataaaata tatatatata cacacatata tataaaatat atatatatat 60
 acacatatat ataaaatata tatatacaca catatatata aaatatatat atacacacat 120
 atatataaaa tatatatata cacacatata tataaaatat atatatacac acatatatat 180
 aaaatatata tatacacaca tatatatata atatatatat acacacatat atataaaata 240
 tatatatata cacatatata taaaatatat atatacacac atatatatata aatatatata 300
 tacacacata tatataaaat atatatatat acacatatat aaaatatata tatacacaca 360
 tatataaaat atatatatat acatatatat aaaatatata tatacacata tatataaaat 420
 atatatacac acatatatat aaaatatata tatacacaca tatatatata atatatatat 480
 acacatatat ataaaatata tatatacaca tatatatata atatatatat atacacatat 540
 atataaaata tatatacaca catatatata aagtatatat atacacacat atatataaaa 600
 tatatatata cacatatata taaaatatat atatacacat atatataaaa tatatatata 660
 caca 664

<210> 23
 <211> 1428
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1428)
 <223> MAR of human chromosome 2, genomic contig; 17840365 to 17841792

<400> 23
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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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gagtctcact ctgtcatact caggctggag tgcagtggcg tgattttggg ttattgcaac	3300
ctctgcttcc tgggttcaag cgattctcct gcctcagcct ccagagtagc tgggattaca	3360
ggcgcctgcc accatgcccc cctagctaac tttttttttt ttttttttga gatagagtct	3420
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cccaggttca agcgattctc ctgcctcagc ctctgagta gctgggatta caggtgggtg	3540
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cttagggctc tcctgcccac ccctatcccc aactccccct cagtaatttt ggctactagt	4560
atttctccac atctgaggct atcgtgggtc tcccttcagt ggtcatgaag gacaagggtg	4620
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3024-119-SEQ.ST25

<210> 27
 <211> 3354
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(3354)
 <223> MAR X_S29 of chromosome X

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<400> 27
gatcccttta taaaaccaca atataatgga gtgctataat ttcaaacagt gtttggctctg      60
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ctaaggcaaa aagctgaggt ttcaggagct tgaaggtaaa gaggaagaaa gaaatgggaa      180
tggaattgg aaagacaaat atcgttaaga gaaaattgct ttaggagag gggaaagaat      240
ctatgtgtac ttaagactat ggaatcaatc ccatttaagc tgggaaacta gtttcatata      300
taactaataa attttattta cagaatatct atttacctga tctaggcttc aagccaaagg      360
gactgtgtga aaaaccatca gttctgtcat attcctaaaa aaaaattaaa aagttaaaaa      420
taaataaata ataaaaacttc ttttctttca aaataatcaa ggtgcttatt cacatccatt      480
ccaatttggg gaaatactta ttttcctatg attagcgaag agaaaagtaa cttgcatttc      540
aattcaagtt gatacatgtc acttttaaga ggtcaactaa tatttgctag ttgagctaac      600
catataggct ttaaataactt tcatagtaga aagaaaatga aaatcattag tgaactgtat      660
aaaatagatc atactttttg aaagaatcag actgaagttt ccgaaaaaaaa gaagtaagct      720
tcaatgaaaa ggtaagtga ttttagcattt actcagcatc tactatggac ttaacaccta      780
acagtagata atctgaaggc aaacatattt gtatagggac tgcagaatga tagatgataa      840
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atggaaagat ttgtagtaca ttaaacaaat ctgaagatgg agttagaaag cttaggctat      960
gttttgagca caacatataa tttctctgtg attgtttctt catctttcaa atgaggttac     1020
tgtgaagatt aaatgagata actaaatgat gataaaataa tgtaatctta gcagcacctt     1080
atttaatctg tgcaacaact ctgtgaagtg agtagggctc agcttcagtc acttctctgc     1140
catttattaa ctaagatagt ttggaaagtt acccatctct tcagctgtaa aatgatgagg     1200
atcacaccta ttttatgggg ctgcttttag gtacaaatat acaggcaagc actttgttaa     1260
tactaaagca ttacaccaat tagttttact cttttccatt cacacatgaa attaatgtaa     1320
tcagaattct gtagattacc taaatcttct gttaacacgt gatatgcagt tcagggttaa     1380
tgtcagttga gttaccaaag cacatacata ctcaccaccc tatccaaatc tacaagcctc     1440
ccagtttgtc ttcactattt tgggttaaatt aatatgaatt cctagatgaa aatttcactg     1500
atccaaatga aataaaaaat atattacaaa actcacacct gtaatctcaa cattttggga     1560

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3024-119-SEQ.ST25

ggccaaggca	ggtagatcac	ttgaggccag	gagttcaaga	ccagcctgat	caacatggtg	1620
aaaccctgtc	tctactaaaa	atacaaaaat	tagccagggtg	tggtggcatg	tgcccttagt	1680
cctacctact	cgggaggctg	aggcacaaga	atcgcttgaa	tgtgggaggt	ggaggttgca	1740
gtgacctgag	atcgtgccac	tgactccag	cctaggcaac	agagtgagat	catgtgtcat	1800
atatatatat	atatatatat	atatatatat	atatatatac	acacacacac	acatatatat	1860
atacacatat	atatacgtat	atatatatat	gtatatatat	acatatatat	acatatatat	1920
atatacgtat	atatatacgt	atatatatat	caatgtaaat	tatttgggaa	atttggtatg	1980
aatagtcttc	cctgtgaaca	cagatcataa	aatcatatat	caagcagaca	aataagtagt	2040
agtcacttat	atgcttatac	ttgtaactta	aagtaaaaga	attacaaaag	catatgacaa	2100
agactaattt	taagatatcc	taattttaa	tgttttctaa	aagtgtgtat	accattttac	2160
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ttttgtaatg	cagatcaccc	acaacaacaa	agaatcctag	cctattaaaa	aagcaacacc	2280
acctacatat	aatgaaatat	tagcagcatc	tatgtaacca	aagttacaca	gtgaatttgg	2340
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actaatgcca	atacacttta	aggtaatctt	aagtagaaga	gatagagttt	agaattttttt	2460
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ccattgcaca	atgctgaagt	acttttttca	aattttaa	ttgaaagttg	ttctttaa	2760
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tcataaataa	acaagtgcta	gtatcaatat	ttttaccaa	aatggcatt	cttagaattt	2940
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acacagaaaa	catacaaaac	gtatttttaa	gacaaataaa	aacagaactt	gtacctcaga	3120
tgatactgga	gattgtgttg	acatattagc	attatcactg	tcttgctaaa	acataaaaat	3180
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aaaattgttc	tgaccaacta	ctaaaggaag	acctactaaa	gatatgccat	ccagcacatt	3300
gccactctac	atgtggtctg	taaaccagca	gcatagggat	cctctagcta	gagt	3354

3024-119-SEQ.ST25

<211> 677
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(677)
 <223> MAR of chromosome 1 genomic contig; 12803267..12803943

<400> 28
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 tatacataat agtatatatt ataataaca taattgtata tatcatatag tatacattat 120
 agtatatatac atatagtata cattatagta tatatcatat agtatacatt atatagtata 180
 tatcatatag tatacattat agtatatatac atatagtata cattatagta tatatcatat 240
 agtatacagta atagtatata tcatatagta tacgtaatag tatatatcat atagtatacag 300
 taatagtata tatcatatag tatacagtaat agtatatatac atatagtata cgtaatagta 360
 tatatcatat agtatacagta atagtatata tcatatagta tacgtaatag tatatatcat 420
 atagtatacag taatagtata tatcatatag tatacagtaat agtatatatac atatagtata 480
 tattatatag tatatatcat atagtatata ttatatagta tatatcatat agtatatatt 540
 atatagtata tatcatatag tatatattat atagtatata tcatatagta tatataatag 600
 tatatatcat atagtatata taatagtata tatcatatag tatatatatac atactatatt 660
 atatatagta tacataa 677

<210> 29
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(332)
 <223> MAR of chromosome 1 genomic contig; 13079684..13080015

<400> 29
 ttaattatat tatatatatt atataattat atattaatat atattaatta tattatatat 60
 attatataat tatatatataa tatatatataa ttatatata tatattatat aattatatat 120
 taatatatat taattatatatt atatatatta tataattata tattaatata tattaattat 180
 attatatata ttatatatta taattatata ttatatataa ataatatata tgtaaatata 240
 atatatataa ttaatatata attaaaacta tttaattata tgtatattat atataaatatg 300
 tattatttaa ataataaata tattatttat at 332

<210> 30
 <211> 479

3024-119-SEQ.ST25

<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(479)
<223> Mar of chromosome 1 genomic contig; 15682296..15682774

<400> 30
acaagtacat atatatatag tatatatata caagtacata tatatagtat atatatatat 60
acaagtacat atatatagta tatatatata tacaagtaca tatatatagt atatatatat 120
acaagtacat atatatagta tatatatata caagtacata tatatatagt atatatatat 180
acaagtacat atatatagta tatatatata caagtacata tatatatagt atatatatat 240
acaagtacat atatatagta tatatatata caagtacata tatatatagt atatatatat 300
acaagtacat atatatatag tatatatata tacaagtaca tatatatata gtatatatat 360
atacaagtac atatatatag tatatatata tatatacaag tacatatata tagtgtatat 420
atatatatat aagtacatat atatacttgt attagtatat atatatatat atacaagta 479

<210> 31
<211> 531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(531)
<223> Mar of chromosome 1 genomic contig; 15694611..15695141

<400> 31
tataatatat ataatacata atagatatat tatattatat aatagatatata taattataaa 60
cataataata tataatgaat ataatatata ataatatata taaaatatat aatatatcta 120
ttatgtatta tatattatat atgtttatat ataatatat tatatatggt tatatatat 180
ataattatat atgtttatat ataatatat tatatatat atattataga tataatatat 240
aatatactat atattataga tataatatat aatatactat atattataga tataatatat 300
aatatactat atattataga tataatatat aatatactat atattataga tataatatat 360
aatatactat atattataga tataatatat aatatatatt atatattata gatataatat 420
ataatatatt atatattata tctatatata atatattgta tattatatat aatatatatt 480
atattatata taatatattg tatattatat ataatatatt gtatatata t 531

<210> 32
<211> 378
<212> DNA
<213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(378)
 <223> MAR of chromosome 1 genomic contig; 886276..886653

<400> 32
 ttatattata tatcttacat aaattatata tatatattac ataaattata tacaatataa 60
 attatataca atataattta tatataaaat ataaattata taaataattt atatataaaa 120
 tataaattat ataaataatt tatatataaa atataaatta tgtataaaat ttatatataa 180
 aatataaatt gtgtataaaa ttatatataa aatataaatt gtgtataaaa ttatatataa 240
 aaatataaat tatatataat ttatatatta taatataaat tatatataat atatatcata 300
 aaatataaat tatatataat atatatcata agatataaat tatatataat atatatcata 360
 agatataaaa tatataat 378

<210> 33
 <211> 595
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(595)
 <223> MAR of chromosome 1 genomic contig; 3326732..3327326

<400> 33
 aaaatatata aatatatata aaaatatata aaaatatata aatatatata aaaatatata 60
 aatatatata aatatatata aaaatatata aatatatata aatatatata aaatatataa 120
 atatataata aatatatata aatatatata aatatatata aaaatatataa tatatataaa 180
 aatataaata tatataaata tatataaaaa tataaatata tataaatata tataaatata 240
 taaatatata taaatatata taaatatata aatatatata aatatatata aatatatata 300
 aatatataaa tatataaaaa tatatataaa tatataaata tatataaata tataaatata 360
 taaaaatata tataaatata taaatatata taaatatata taaatatata tataaatata 420
 tataaatata tatatatata aatatatata aatatatata taaatatata taaatatata 480
 tatatatata taaatatata taaatatata taaatatata tataaatata tataaatata 540
 tataaatata tatataaata tatataaata tatatataaa tatatataaa tatat 595

<210> 34
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

<222> (1)..(738)

<223> MAR of chromosome 1 genomic contig; 4485716..4486453

<400> 34

ataatagata atatataatta tatgatagat atataatata ttatataata tataatatat	60
tatatatcta tcatataata tatataatat ataatatatt atatatctat catataatat	120
aatatatata atatataata tatatcatat tatattgtat ataatatata tcatattata	180
ttgtatataa tatatatcat atttatattgt atataatata tatcatatta tattgtatat	240
aatatatatc atatttatatt gtatataata tatatcatat tatattgtat ataatatata	300
tcatattata ttgtatataa tatatatcat atttatattgt atataatata tatcatatta	360
tattgtatat aatatatatc atatttatatt gtatataata tatatcatat tatattgtat	420
ataatatata tcatattata ttgtatataa tatatatcat atttatattgt atataatata	480
tatcatatta tattgtatat aatatatatc atatattatc tatttatattg tatataatat	540
atatttatata ttatctatta tattgtatat aatatatatt atatattatc tatttatattg	600
tatataatat atatttatata ttatctatta tattgtatat aatatataat aaatatagta	660
tatataatag ataatatata gtatatatga tatatttatat atactatata ttatatatca	720
tatatactat atactata	738

<210> 35

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(386)

<223> MAR of chromosome 1 genomic contig; 5423067..5423452

<400> 35

taaatatata aaaatatata taaaaatata aaaatattta tataaatata taaaaatatt	60
tatataaata tataaatata taaatatata tttatataaa tatataaata tataaatata	120
taaatatata tttatataaa tatataaata tatattttata taaatatata aatatatata	180
aaatatataa atatatatatt atataaatat ataaatatat ataaaatata taaatatata	240
tattttatat aaatatataa atatatataa aatatataaa tatatatatt ttatataaat	300
atataaatat atataaaata tataaatata tatattttat atattttatat atataaatac	360
atatatttca tatatcacat atatga	386

<210> 36

<211> 584

<212> DNA

<213> Homo sapiens

3024-119-SEQ.ST25

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<220>
<221> misc_binding
<222> (1)..(584)
<223> MAR of chromosome 1 genomic contig; 5805559..5806142

<400> 36
taaataatttt taaaatatat atattttata atatataatt tatattataa tgtgtacata    60
atatatatta taatataata tatataatac tgttatattat attatatata ttataatata    120
tattattata tattatatta tatataatat aatatatatt ataatatatt atattatata    180
tattataatg tattataata tatattatat tatatattat aatatatatt atattatata    240
ttataatata tattatatta tatattataa tatatattat attatattat atatattata    300
atacatatta taatacatat tatataatat attataatat gtattataat acatattata    360
taatatatta taatatatta tatataataa tatattataa tacatattat atataatata    420
tattatgtat attatatata atatatatta caatgtatat tatgtatatt atatatatta    480
tatatcatat aatatatatt atataataa tgatatataa tatatattat ataatatatt    540
atatgatata tataatatgt attacatgta atatatatca taat                        584

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```

<210> 37
<211> 345
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_binding
<222> (1)..(345)
<223> MAR of chromosome 1 genomic contig; 10802644..10802988

<400> 37
tgtatatata tactatatat atactatata tatagtgtat atatatacta tatatatact    60
atatatatag tgtatatata tactatatat atagtatata gtatatatag taatatatat    120
atatagtata tatatacact atatatagta tatatagtat atatatatattg tgtatatagt    180
atatatatag tgtatatata gtatatatat attgtatata tagtatatat attgtgtata    240
tatagtatat atatagtata tatagtatat atagtatata tatagtatat atatactata    300
tatatagtat atatatatattg tatatatata ctatatatat agtat                    345

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```

<210> 38
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_binding
<222> (1)..(474)
<223> MAR of chromosome 1 genomic contig; 13496468..13496941

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3024-119-SEQ.ST25

```

<400> 38
atattatata taatataatt atatctataa ttatatatta tatataatat aattatatat      60
ctataattat atattatata taatatatat tatatataat atataattat atataattta      120
tataatataa tatataatat ataattatat ataattatat aatataatat ataatatata      180
attatatata atttatataa tataatatat aatatataat tatatatatt tatataatat      240
aattatatat aatatataat tatatataat ttatataata taattatata taatatataa      300
ttatatataa tttatataat ataattatat ataattatat attatatata atttatataa      360
tataattata tataatatat aattatatat aatatataat tatatataat tatatataat      420
atataattat atataattta tataatataa ttatatatta tatatattat atat          474

```

```

<210> 39
<211> 483
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_binding
<222> (1)..(483)
<223> MAR of chromosome 1 genomic contig; 2509163..2509645

```

```

<400> 39
caaaatacat aatatataat agtattatat aatagtatgt atagttataa tatatagtat      60
aattacaata tatgatatgg tttatatatt atatatagta taatataata taacataata      120
ctattataat atataaacta tataatatat actattataa tatatgaact attataatat      180
ataaactata tataatatat aatatgtact attataatat ataaactatt ataatatat      240
atataaacta ttataatata taaactatta taatatatat aatactatgt atacatatat      300
tacattatgt acatactaca ttatgtatta tgtatgtata tatacacaaa atacataata      360
tataatagta ttatataata gtatatatag ttataatata tagtataatt acaatatata      420
atatggttta tatattatat atagtataat acaatataac ataatactat tatatataaa      480
cta                                                                    483

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<210> 40
<211> 641
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_binding
<222> (1)..(641)
<223> MAR of chromosome 1 genomic contig; 2776349..2776989

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<400> 40
tgttatatat atataacata gatattatat atacatgtta tatatataac atagatatta      60

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3024-119-SEQ.ST25

tatatacatg ttatatatat aacatagata ttatatatat aacatagata ttatatatac	120
atgttatata taacatagat attatatata catgttatat ataacagata ttatatatac	180
atgttatata taacatagat attatatatg tatgttatat ataacataga tattatatat	240
gtttatataa tatataacat atgtttaaca tatataatat ataacatggt tatataatat	300
ataacataat tatatgttat atatgatata aaacatatat attatatatcg ttatatgtaa	360
tatataacat atattgtata cgttatatgt aatatataac atatattgta tacgttatat	420
gtaatatata acatatattg tatacgttat atgtaatat taacatatat tgcatacgtt	480
atatgtaata tataacatat attgtatagc ttatatgtaa tatgtaacat atattgtata	540
cgttatatgt aatatgtaat atataatata tataacatgt atatataaca tatatgtata	600
taacatatat ataacatata taacatatat gttatattat a	641

<210> 41
 <211> 745
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(745)
 <223> MAR of chromosome 1 genomic contig; 2858703..2859447

<400> 41	
atattttatat atgtaataat atataatata tttatatgta tttgtatatg taataatata	60
tatataataa aatatgtaat aatatataat atattttatat ataaatatat tatatttatat	120
atatattatt atattttataa tataatatat atttatatata tatattataa atatataatta	180
tataatatat attataaata tatatttatat aatatatatt ataaatatat attatattat	240
atattataaa tatatattat ataatatata ttataaatat atattatata atatataatta	300
taaatatata ttatatattat aatatatatt tttgtatatt atatattata tattataaat	360
attatttatat ttataatata ttatatattt tatatatatat atatgatata tattataaat	420
atatcttata aatatatata tttatatata tatattataa atatataaat ataaatatat	480
aatatatat aatatatat aataaatata atatataata tatataatat ataataaata	540
taataaatat aaatatatca tataaatata aatataaata taaatatatc atataaatat	600
atatatttat atgatatatt atagtatata taaatatatt tatatattat aaaatattta	660
tataatatat aattataata ttttatata tataaattaa ctaatatata taaactaata	720
taatataata tgtaataata tagta	745

<210> 42
 <211> 307

3024-119-SEQ.ST25

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(307)
 <223> MAR of chromosome 1 genomic contig; 945522..945828

<400> 42
 catatataat atatattacc tatgttatat aggtcatata taacataaat atattacata 60
 tatgtaatat atattaaata taaatatata acatatatgt gtaactatat atgtaaatat 120
 gtacatatat atatatgtaa atatataata tatattttaca ttatattata taatatatat 180
 ttacattata tttttatata tacattatat atattttacat tataaatatt tatataatat 240
 atattttacat tatattacat tatataaaaat acaatatatt acattataat acattataac 300
 agataaa 307

<210> 43
 <211> 357
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(357)
 <223> MAR of chromosome 1 genomic contig; 3402743..3403099

<400> 43
 aatattatat taaatataat atattaatat ttaatatatt taatataata ttaaataaat 60
 atattataaaa taaattataa tatataaata tatattatgt atttatgtat aatatataaa 120
 aattatatat aatatatata tttttataaa tatataaata tataataaat aaatatatta 180
 aataaataat aatatattaa atattaatat attaaatatt atatattaaa tataatatgt 240
 aatatgaaat atattaaata ttatatatta aatataatat ataatgtgaa atatattaaa 300
 tattatatat taaatataat atataatatg aaatatatta aatattatat attaaat 357

<210> 44
 <211> 323
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(323)
 <223> MAR of chromosome 1 genomic contig; 3485830..3486152

<400> 44
 atattttatag actatatatt tatatatatta gtgtatttgt atactatata tttatatagt 60
 tagtatattt gtatactata tttttatata tttagtatat ttgtatacta tatattttata 120

3024-119-SEQ.ST25

tatttagaat atttgtatac tatatatatta tatatttagt atatttgtat actatatatt	180
tagtatattt gtatactata ttttatata ttagtatat ttgtatacta tatatttata	240
tatttagtat atttatatac tatatactta tatatttagt atatttatat actatatact	300
tatatattta gtatatttat ata	323

<210> 45
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(498)
 <223> MAR of chromosome 1 genomic contig; 3548336..3548833

<400> 45	
aattattact atattgttaa tataattatt atataatata atataattat atcactatta	60
ttatattata gtattaatat aatagtgtat aacattaata taatatagta ttaatatat	120
agcgtataac attaataata tatagtatta atataatagc gtataacatt aatataatat	180
agtattaata taatagtgtta tattaatata atatagtatt aatatataat attaataata	240
tatatcaata taatagtata taatataata taatatatca atataatagt atataatata	300
atataatata tcaatataat agtatataat ataataat atatacaatat aatagtatat	360
aatattaata taatataata tcaatataat agtatataat attaatatat taatataata	420
gtatataata ttaatgtaat ataattata cataatgtat ataataatat aatagtatat	480
aatactaata taatataa	498

<210> 46
 <211> 400
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(400)
 <223> MAR of chromosome 1 genomic contig; 4595109..4595508

<400> 46	
aatatatatta tatttatatat tatatatatt tcaatatact ataatatata ttatatatgt	60
ttaatacaat atataatatt tacatatatt cccatttatt tatataacat atatttatatg	120
atatttatata ttactccata taatataata tattatacat aatatattac tcagtataat	180
acataatata tataatatat tactcggtat aatatataat attatatggt atgcaatata	240
atatataata ttatatataa tacattattc aatataatat ataattatt atataatata	300

3024-119-SEQ.ST25

ttattcaata taatatataa tacactattc aatataatat acaatattat atataataca	360
ttattcaata taatatatat tatataatat atatatttat	400

<210> 47
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(403)
 <223> MAR of chromosome 1 genomic contig; 7205509..7205911

<400> 47 agtatatata tgtgtatata tatgagtata tatatgtgta tatatatgag tatatatatg	60
tgtatatata tgagtatata tatgtgtata tatatgagta tatatatgtg tatatatatg	120
agtatatata tgtgtatata tatgagtata tatatgtgta tatatatgag tatatatatg	180
tgtatatata tgagtatata tatgtgtata tatgagtata tatatgtgta tatatgagta	240
tatatatatg tgtatatatg tgagtatata tatgtgtata tatatgagta tatatgtgta	300
tatatatgag tatacatatg tgtatatata tgagcatata tgtgtatata tatgagtata	360
tatatgtgta tatatatgag tatatatgtg tatatatatg agt	403

<210> 48
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(309)
 <223> MAR of chromosome 1 genomic contig; 7507280..7507588

<400> 48 tataaaatat atattattta tatattatat ataaaatata tattatatta tatattatag	60
atataataaa taaataatat ataatatatt atataattat ttatacataa ttatatataa	120
ttatatgtaa ttgtacaatt atatataatt atatacaatt atacacataa ttatatacaa	180
ttatacaatt atatacataa ttatatatat aatatacata attatatatt aattatacaa	240
ttatatacat aattatatat aattatacaa ttatatacat aattattatg tatattatat	300
tatataata	309

<210> 49
 <211> 516
 <212> DNA
 <213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(516)
 <223> MAR of chromosome 1 genomic contig; 3581085..3581600

<400> 49
 atatatatat atatatatat atttatatat atatatatta atatatatta tatataaaaa 60
 tatataaaaat ttatatatat aatttatata tataaaaaata tataaaaattt atatatatata 120
 tttatatata taaaaatata taaaatttat atatataatt tatatatata aaaatatata 180
 aaatttatat atataattta tatatatataa aatatataaa atttatatat ataatttata 240
 tatataaaaa tatataaaaat ttatatatat aatttatata tataaaaaata tataaaaattt 300
 atatatatata tttatatata taaaatatat aaatttatata tataattata tatataatat 360
 aaaatttat atataattat atatataata taaaattata tatataatta tatatatataat 420
 ataaaattat atatatatattg tatatatata aaatatacaa aatttatata tataaaaatat 480
 aaaatatata taaaaataaa tatatatataat ttatat 516

<210> 50
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(534)
 <223> MAR of chromosome 1 genomic contig; 3084851..3085384

<400> 50
 atataatata tatgactata ttttttatat tatattctat ttcaataaaa tttttatatt 60
 ttatttatata ttataatata taatttatata tgtaataata tataatatat aatatatatt 120
 ttatattata ttttatattt atttttatat tttatattat attttattat atatattata 180
 atatataatt atatatgcaa taatatatta tatattataa tatataatta tatatgcaat 240
 aatatattat atattataat atataattat atatgcaata atatattata gattataata 300
 tataattata tatgcaataa tatattatat attatatatt agataatata ttaatatata 360
 ttataacata taatatataa catataatat ataatatatt atctaataa taatataaca 420
 tataatatat aatatattat ataatatatt attacatata taatatattg taatatataa 480
 tattacatat atcttcaaaa agagttatgt gtatataata catatatata ccat 534

<210> 51
 <211> 583
 <212> DNA
 <213> Homo sapiens

<220>

3024-119-SEQ.ST25

<221> misc_binding
 <222> (1)..(583)
 <223> MAR of chromosome 1 genomic contig; 160087..160669

<400> 51
 tattttatata aaatatataa aatatattat atataaatat attatatata atatatttat 60
 atattatata atatatttat atattatata taatatattt tatataatat acataatata 120
 ttttatatat tatatataat atattttata tataatgtac aatatatttt atatattata 180
 tataatatat tttatatata ctatacaata tattttatat attatatatt ttatatatat 240
 ttttcatgta acatatatat tttatatata atatatatac catatataat atattttata 300
 tataatatat ataccatata taatatattt tatatataat atgtatatca tatatagtat 360
 attttatata taatagggtat accatatata atatatttta tatataatag gtataacata 420
 tataatatat tttatatata atatgtatac catatataat atattttata tattatagat 480
 accatatgta atatacttta tatataatat agataccata tgtaatatac tttatatata 540
 atatagatac catatgtaat atactttata tataatatag ata 583

<210> 52
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(314)
 <223> MAR of chromosome 1 genomic contig; 4350424..4350737

<400> 52
 tatgtgtata taaatatatg tatatatgtg tatataaata tatataaata tatgtatata 60
 tgtatatata catatattta tatataaata tatgcatata tttatatata aaatatatgc 120
 atatatgtat atatataaaa tatatacata tatgtatata tataaaatat atacatatat 180
 gtatatatat aaaatatata catatatgta tatatatata atatatacat atagtatat 240
 atataaata tatacatata tgtatatata taaaatatat acatatattt atatatataa 300
 aataccaagt cttat 314

<210> 53
 <211> 828
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(828)
 <223> MAR of chromosome 1 genomic contig; 8443267..8444094

<400> 53

3024-119-SEQ.ST25

tattatataa ttatatatac tatataatta tataatatat agttatatag tatatataat	60
atatataata tatactatag tatatataat atatataata tatactatag tatatataat	120
atataattat atataatata tataatatag tatatattat atatatatta tatatatata	180
atatatatat aatatatata atatagtata tataatatat aattatatat aatatataat	240
atagtatata taatatataa tatatatata attatatact ataatatata taatatataa	300
ttatatatta tatactatag tatatattat tatatataat agatataata tatataatta	360
ttatataata tagtatatat aatatataat tatatataat agatataata taatataatt	420
atatataata tagtatatat aatatataat tatattatat tatatataat atataattat	480
aatatataat tatattatat aatatatata atatataatt atattatata attatattat	540
ataatatata taatatataa ttatattata taatatatat aatatataat tatattatat	600
aatatatata atatataatt atattatata atatatataa tatataatta tattatataa	660
tatatataat atataattat atattatata taatatagta tatataatat gtaattatat	720
atcatataat atataacatt gtatataata tataattaca tattatataa tgtatataat	780
atataattat atacattata taatatagta tataattata tattatgt	828

<210> 54
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(573)
 <223> MAR of chromosome 1 genomic contig; 8703190..8703762

<400> 54	
tatattatat ataaaatata catataatat acctataata tacatataat atataatata	60
tattatgtac atataatata catataatat atataatata taatgtacat ataatatata	120
tataatatat gttatatatt atatataaaa tataggatat atataatata gaatatatat	180
actatatgtt atatataaga tatataatat atagtatata tactatataa tatataatat	240
atagtatata taatatataa tatagaatat atatacaata tataatatag aatataggat	300
atatatagaa tatacatata taatatgtat atattatata ttatattata tattatataa	360
aaatatataa tatataatat aaaaatatat tatatattat ataatatata atatattata	420
tattatatat tatataatat aaaatatatt atatattata tattatatat aaaatatatt	480
atatattata tattatatat aaaaatatat tatatattat atattatata taaaatata	540
ttatatatta tatataaaaa tatatattat tac	573

<210> 55

3024-119-SEQ.ST25

<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(597)
<223> MAR of chromosome 1 genomic contig; 8819076..8819672

<400> 55
acatatctta tatataaaat atataaatat acacatatatt tatatataat atatattata 60
tatatgaaat atacacatat ttttatatat ataatatata tattatatat aatatatgca 120
tatattatat ataaaatata tatattatat ataaaatatg catatattat atataatata 180
tataatataa aatatataat atatattata tattatatat aatatatatt atatataata 240
catatatata atatataata tatataaaat ataatatata tattatataa tatatatata 300
aatatatata atatatatat aatatatata ttatatataa aatatatatt atatgtaaaa 360
tatataatat atataatata tatattatat gtaaaatata tattatatat aaaatatata 420
atatataaaa tatatattat atataaaata tataatatat aaaatatata atatataata 480
aatatataat atatataaat atatattata tataaaatat ataatatata taaatatata 540
ttatatataa aatatataat atatataaat atatattata tataaaatat atattat 597

<210> 56
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(646)
<223> MAR of chromosome 1 genomic contig; 759619..760264

<400> 56
taatatatat aatatatatt atataataat atataatata tattatatta taatatataa 60
tatattatat aataatatat attatataat atataataat atatataata catattattt 120
aataatatat aatatatatt atataataat atataatata tattatataa taatatatat 180
tatattatat aatatataat atatataata tatattatat aataatatat aatatatatt 240
atagaatgat atattagata ttatatataa atatatatataa tattatatat tatataataa 300
tatataatat atattatata attatatata taatattata tattatataa ttatatataa 360
tatattatat aattatatat ataattattat atattatata attatatata atatataata 420
tataattata tatataatac tatatattat ataattatat ataatactat atattatata 480
atttatataa ttatatatat tatatattat ataattatat atattatata ttatatataa 540
acatatatat tatatattat ataataacat atatattata tattatataa tacatatata 600

ttatatatta tataatacat tattatataa tatataatat atatta 646

<210> 57
 <211> 752
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(752)
 <223> MAR of chromosome 1 genomic contig; 1226710..1227461

<400> 57
 taaacatata tataaatata tataaatata tatataaata tatataaata tataaatata 60
 taaatatata tgaatatata aatatatata aatatatatg aatatataaa tatatatata 120
 aatatatata aatatatata taaatatata taaatatata taaatatata taaatatata 180
 taaataaata tataaatata tataaatata taaatatata tataaatatg taaataaata 240
 tatataaata tataaatata tataaatata tataaatata tatagaaata tatatagaaa 300
 tatatataaa tatatataga aatatataga aatatatata gaaatatata taaatatata 360
 taaatataga aatatatata aatatatata aatatatata gaaatatata atatatataa 420
 atatatataa atatataaat atatatataa atatatatat aaatatatat aaatatatat 480
 aaatatatat aaatatatat aaatatatat attaatatat aaatctatat taatatatat 540
 taatatataa atctatatta atatatatta atatatatat taatatatat taatatataa 600
 atatatatat taatatataa atatatataa atatatatgt aaatatatat ataaatatat 660
 ataaatatat atataaatac atataaatat atatataaat atatataaat atatatataa 720
 atatatataa atatatatat aaatatatat aa 752

<210> 58
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(300)
 <223> MAR of chromosome 1 genomic contig; 1119049..1119348

<400> 58
 taatatatcat tttatataat atatgtaata tatattttat atatatgtaa tatatatttt 60
 atataatata tgtaatatat attttatata tatgtaatat atattttata taatatatgt 120
 aatatatatt ttatataata tatgtaatat atattttata taatatatgt aatatatatt 180
 ttatataata tatgtaatat atattttata taatatatgt aatatatatt ttatataata 240

3024-119-SEQ.ST25

tatgtaatat atattttata taatatatgt aatatatatt ttatatatat gtaatacata 300

<210> 59
 <211> 617
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(617)
 <223> MAR of chromosome 1 genomic contig; 3603613..3604229

<400> 59
 aaaatataat atatataata tataatatat ataatatatt atatataaaa tatataatat 60
 ataatatata taataaaaata tacataatat ataattgata ataaaatata cataatatat 120
 aatatataat aaatatataa tatataatat ataataaaat atataatata taatatataa 180
 taaaatatat aatatattat atataataaa atatataata tattatatat aataaaatat 240
 ataatatatt atatataata aaatatataa tatattatat ataataaaat atataatata 300
 ttatatataa taaaatatat aatatattat atataataaa atatataata tataatatat 360
 aataatatat ataatatata atatataata taaaatatat ataatatata atatataata 420
 taaaatatat aatatataat atatataata aaatatatat gatataatat atatataata 480
 aaatatatga tatataatat atataataaa atatataata tataatatata tatataatat 540
 atatactaaa aaatatataa tatataataa aaaatatata atatataata tatataatat 600
 ataataaaat atatata 617

<210> 60
 <211> 674
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(674)
 <223> MAR of chromosome 1 genomic contig; 2592460..2593133

<400> 60
 taagcttata tatatatata agcttatata tatatatata agcttatata tatatagaaa 60
 gcttatatat atatagaaag cttatatata taagaagctt atatataaaa gcttatgtat 120
 aaatatatat aaatatattt atttatgctt atagatacat atataaatat atttatttat 180
 atttatatat aaacatatat ttatatatat ttatataata tttattttatt atataaataa 240
 atatataata aataataaat atatataata tttttattgt attattttata taaattttatt 300
 aatataatat ataataaaat aataattata taaatatata aatatctata aatatatata 360
 aatatatata atatctataa atatataata atataaatat atataatatc tataaatata 420

3024-119-SEQ.ST25

gataaatata aatatatata atatctataa atatagataa atataaatat atataactat	480
atataaatat atataactat atataaatat atatataaat atatataact atatatataa	540
ctatatatat aatatatat aactatatat ataaatatat atataaatat atataactat	600
atatataaat atatataact atatataaat atatatataa atatatataa ctatatatat	660
aaatatatat ataa	674

<210> 61
 <211> 1694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1694)
 <223> MAR of chromosome 1 genomic contig; 2891680..2893373

<400> 61 atatgtaata catatattat atatgcatat atacatgcat atgtatatac atatattata	60
tatgcatata tacatgcata tgtatataca tatataaagt atgattatat ataatatata	120
catgtatatg tatatacatg tatatattat attatatatt atttatacat attattatgt	180
ctatatataa tataatatat acatattaat aatataatac ataatatataa ataatatatt	240
atataataca taatatataa taatatatta tataatacat aatataatat aatatattat	300
atgatacata atataatata atatattata tgatacataa tataatataa tacatattaa	360
taatataatta ttattattaa tataatatat acatattaat atacatacat atatattata	420
ttatatataa tatacatata atataaatatg taatattata tataatataa tacataatat	480
aatacatatt aatatatat tattaataag ataatatata tgtatctata atatatacat	540
atatgtatat gtatgtatat attatagata tacatgttta tacatgtata tattatagat	600
atatacatgt atatacatgt atatattata gatatacata tgtatatacg tatatattat	660
agatatacat gtatatatgt atatatatta tagatataat atatacaaga atataagaat	720
atatataata taatatataa tacacataat acgtatatat tatatataca tgtatattat	780
atatgtacat atatacatgt atattatata tacatgtata ttatatatac atgcatatta	840
tatatatttt tatatataat atccatgtat attatgtata tttgtgtata ttatatatac	900
atgtatatta tatatacatg catattatat atatttttat atataaatatc catatatatt	960
atgtatattt gtgtatatta tatatacaca tatattatat atacatggat attatatata	1020
cacatatatt atatatacat atatattata tatacacata tattatatat acatgtatat	1080
tatatataca cgtatattat atatacacac gtatattata tatacacgta tattatatat	1140
acacacgtat attatatata cacgtatatt atatatacac acgtatatta tatatacacg	1200

3024-119-SEQ.ST25

tatattatat	atacacacgt	atattatata	tacacgtata	ttatatatac	acacgtatat	1260
tatatataca	cgtatattat	atatacacac	gtatattata	tatacacgta	tatttatatat	1320
acacacgtat	attatatata	cacgtatatt	atatatacac	acgtatatta	tatatacatg	1380
tatattatat	atacatgtat	attatatata	cacatgtata	ttatatatac	atgtatatta	1440
tatatacaca	tgtatattat	atatgcatgt	atattatata	tacacatgta	tatttatatat	1500
acacatgtat	attatatata	catatatatt	atatatacat	gtatattatg	tatacatata	1560
tatttatatat	acatgtatat	tatagataca	tatatattaa	atatacatgt	atattatgta	1620
tacatatata	ttaaatac	atgtatat	tatatacata	tatattatat	acatgtatat	1680
tacatgtata	cata					1694

<210> 62
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(587)
 <223> MAR of chromosome 1 genomic contig; 3432560..3433146

<400> 62	
gaattatata	tatatagctg aattatatac atatataata tatacaatat atattatata 60
tttatatatg	atatatacaa tatatattac atattatata tacaatatat aatatataat 120
atataatatt	atatattata tattgtatat aatatatatt atataacatt atataatata 180
taatattata	tatttatatat tgtatataat atatattata taacattata taatatatac 240
tatttatatat	tataatatat aatatataat aatatataat agtatatatt atatatatg 300
tatatattat	atataaatat ataatatata atatataatta tataatatat attatataat 360
atatattatt	atatattata ttttatata taatatatat tatatatatt atattttata 420
tataaatata	taatataata taatatataa tttaatatat ataatatata caatatataa 480
tatataatat	attaatatat ataatatata caatatataa tatataatat ataatatata 540
atataaatta	ttatatataa tatatattat atatagctga attatat 587

<210> 63
 <211> 313
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(313)
 <223> MAR of chromosome 1 genomic contig; 3805392..3805704

3024-119-SEQ.ST25

```
<400> 63
tatataatat gtatattatg taatatttta tatagcatat atgtatatta tatataatct    60
tttatatata gtatataata tgtatattat atattatata attatataat tatgtattat    120
ataaaatata ttatataata tataattata ttttttttga aatatagatt atatataata    180
tatatggcag tgagctgaga tataatatat attatctata ctatataata tatatttatat    240
atactctata ttatatatgt atatattata tataatatat acatatataa tgtgtatata    300
ttatatataa taa                                                         313
```

```
<210> 64
<211> 349
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_binding
<222> (1)..(349)
<223> MAR of chromosome 1 genomic contig; 4521378..4521726
```

```
<400> 64
ttatatacac tatataatat gtattttatat atactttatat acactatata tgtattttata    60
tataattata tacactatat aatatgtatt tatatataat tatatacact atataaatatg    120
tattttatata taattatata cactatataa tatgtatttta tatataattg tatacactat    180
ataatgtata tttatatata attgtatata ctatataatg tatattttatg tataattgtata    240
tacactatat aatgtatatt tatgtataat tgtatacact atataatgta tattttatgta    300
taattgtata taccatataa tgtatatatta tgtataattg tatataacca              349
```

```
<210> 65
<211> 500
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_binding
<222> (1)..(500)
<223> MAR of chromosome 1 genomic contig; 3240166..3240665
```

```
<400> 65
ttaatatata atatataatta tatattttata tattaatata taatatatat ttatatataa    60
tatatattat atattttatat tacatatatt tatatgttaa tatatatttt atatattttat    120
atattttata tattttatata ttatatattt atatattata tttatatatt atatattttat    180
attatatatt tatatattat atttatatat tatatattta tattatatat ttatatattg    240
tatattttata ttatatattt atatattgta tttatatatt atatattttat atactatata    300
tattttatata tatttatatat ttatatatta tatatatatta tatatattat atattttatat    360
```

3024-119-SEQ.ST25

attatatata tttatatata ttatatat	420
atatattata tatatttata tatattatat	
atattttatat atattatata tttatatata	480
atatatatta tatattttat ctatatat	
atatattaat atatattata	500

<210> 66
 <211> 866
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(866)
 <223> MAR of chromosome 1 genomic contig; 409429..410294

<400> 66	
atatatataa tatatttat atattatata	60
ttatatatat aatacatata ttatatatat	
aatatataat acatatatta tatatattat	120
atattatata taatatataa tacatatatt	
atatataata tataatatat aatatattat	180
ataatataat tatataatta tataatataa	
tataatatat aatatttat aattatataa	240
tatatataat tatatttat attataaata	
ttatataata tatatattac aaatatatat	300
tatatatatt ataaatatta tataacatat	
atattatata atatatataa tatataatat	360
atataaaaat ataatatata agatatatat	
aatatatgat atatatgata tataatatat	420
gatatatatg atatatataa tatatgatat	
atatgatata tatgatatat ataatatatg	480
atatatatga tatatatgat atatgatata	
tatgatatat gatatatatg atatatatga	540
tatatgatat atatgatata tatgatatat	
gatatatatg atatatatga tatatgatat	600
gatatatata atatatgata tgatatatat	
aatatatgat atatatgata tatgatatgt	660
aatatatatg atatattata tataatatat	
aatatataca taatatataa tatataatat	720
ataatatata taatatgtga tatatataat	
atatgatata tgatatatga tatatattat	780
ataatatata taatatatat tatatataat	
atatattata taatatatat aatatatatt	840
atatataata tataagatat aagatataat	
atatataata tataatatat ataata	866

<210> 67
 <211> 335
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(335)
 <223> MAR of chromosome 1 genomic contig; 614754..615088

<400> 67

3024-119-SEQ.ST25

acccaatata tgtgtatata tgtatgtata tatacatata catacataca tatatgtaca 60
 tacatatata catacataca tatatatgta catacatata tacatacata catatatata 120
 tataacatat atacacacat atatacagat atacatatat acatacatat atacatataa 180
 catatatata tacatatata catataacac atacatacat acatatatac atacaacata 240
 tatacatata tatatacata tgtatacata catatatgta tacatatatg tatacatata 300
 tgtatacata tatgtatata tatattgtta tatat 335

<210> 68
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(455)
 <223> MAR of chromosome 1 genomic contig; 1299520..1299974

<400> 68
 ggatatatat attattagtt gttatattat tatatattat atatattatt atatataata 60
 tattatatca tatatattat tatatataat atattatattc atatatatta ttatataata 120
 tattatatca tatatattat tatatataat atatattata tatattatta tatataatat 180
 atattatata tattattatg tataatatat atattatata ttattttatat atatataaat 240
 tatataataa tatataatta attatacata tatacatata taagtataca tataatatat 300
 ttatatagta tatataaata tatatacaat atattttatat attatatatt atatataaat 360
 atatacaata tattttatattc atatattttta tatatgatac atataatata tatttatatat 420
 gatataataat atatatcata tatgatatat aacat 455

<210> 69
 <211> 404
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(404)
 <223> MAR of chromosome 1 genomic contig; 1970778..1971181

<400> 69
 atatataata tgtataatat ataatatata tcatatatgg ttctatgtat attacatata 60
 atatgcatta tatatttatat attgcatata atatgcatta tatatttatat attgcatata 120
 atatgcatta tatatttatat attgcatata atatgcatta tatatttatat attgcatata 180
 atatgcatta tatatttatat attgcatata atatgcatta tatatttatat attgcatata 240
 atatgcatta tatatttatat aatatataca catataatat atataattta tatatattta 300

3024-119-SEQ.ST25

tatatattta catttattat atatttatta tatataaata ttttttata tattacttat	360
atatttatata taatatatat aatatatata ttatatataa tata	404

<210> 70
 <211> 605
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(605)
 <223> MAR of chromosome 1 genomic contig; 3562918..3563522

<400> 70 tatatatata aaatacatat atatttatata tatttatatat aatacatata ttatatatta	60
tatataatac acgtatataa tatataatat ataatacata taatatatat gatataaat	120
acataataa tatatgatat ataatacata tataatatat atgatatata atacatatat	180
aatatatatt atatataata catatataat atatattata tataatacat atataatata	240
tatttatatat aatacatata taatatatat tatatataat acatatataa tatatattat	300
ataatacata tataatatat attatataat acatgtatat aatatatatt atatataata	360
catatatatt atataataca tgtatataat atatattata tataatacat atatattata	420
tatttatatat taatatattt atataatagt aatatataat attaatatat tatatatatt	480
aattattatat ataatacata tatttatatat aatataaata tatataatac atatataata	540
cacatattat atataataca tatattatat ataatatata tatttatatat aatatatatg	600
taata	605

<210> 71
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(317)
 <223> MAR of chromosome 1 genomic contig; 189743..190059

<400> 71 ttttttttat atttatatat tatatatatt tttatatgta atatattata tataaaatta	60
tataatttta ctacatataa tatataaaat tatataattt tactacatat aatatataaa	120
attatataat ttacttatat ataatatata aaattatata attttatata taatatatat	180
tataatatat atttatatgca atatatatta tatattatat tataatatat tgtatatttt	240
tgtatataaaa atatataata tataatatat ttatagacaa taatatataa tataatatat	300

aaaattttat atataaa

<210> 72
 <211> 522
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(522)
 <223> MAR of chromosome 1 genomic contig; 229111..229632

<400> 72
 gatatatata tttatatata taaaagatat atattattta tatataaaga tatatattta 60
 tatatataaa agatatatat ttttatata tataaaagat atatatttat atatatgata 120
 tatattattt atatatataa aagatatata tttatatata tgatatatat ttttatata 180
 taaaagatat atataaaaga tatatattat ttatatatat aaaagatata tatataaaag 240
 atatatatata tttatatata taaatgatat atattattta tatataaaag atatatatata 300
 tttatatata aaagatatat attattttata tatataaaag atatacatat aaaagatata 360
 ttttatata taaaagatat atatatttat atataaaaga tacatatatt tatatatata 420
 aaagatatat atatttttat atataaaata tatatttatat atataaaaga tatatataaa 480
 tatatatatc ttttatatat aaaagatata tataaatata ta 522

<210> 73
 <211> 1110
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1110)
 <223> MAR of chromosome 1 genomic contig; 1138030..1139139

<400> 73
 tatgtatgta tacataatat attatatatg tatattatgt atacataata tattatatat 60
 gtatattatg tatacataat atattatata tgtatattat gtatacataa tatattatat 120
 attatatgta tattatgtat acataatata ttatatatta tatgtatatt atgtatacat 180
 aatatattat atattatag tatattatgt atacataata tattatatat tatatgtata 240
 ttatgtatac ataatatatt atatattata tgtatattat gtatacataa tatattatat 300
 attatatgta tattatgtat acataatata ttatatatta tatgtatatt atgtatacat 360
 aatatattat atattatag tatattatgt atacataata tattatatat tatatgtata 420
 ttatgtatac ataatatatt atatattata tgtatattat gtatacataa tatattatat 480
 attatatgta tattatgtat acataatatt tatatattat atgtatatta tgtatacata 540

3024-119-SEQ.ST25

atatattata tatttatgt atattatgta tacataatat gtacacataa ttttatata	600
ttatatgtat attatgtata cataatattt atatattata tgtatattat gtatacataa	660
tatttatata ttatatgtat attatgtata cataatattt atatattata tgtatattat	720
gtatacataa ttttatata ttatatgtat attatgtata cataatatat tatatattat	780
atgtatatta tgtatacata atatattata tatttatgt atattatgta tacataatat	840
attatatatt atagtatat tatgtataca taatatttat atattatatg tatattatgt	900
atacataata tatttatatat tatatgtata ttatgtatac ataatatatt atatattata	960
tgtatattat gtatacataa tatattatat attatatatg tatattatgt atacataata	1020
tatttatatat tatatatgta tattatgtat tatattatat attatgtata ttatagatta	1080
tgtatgcata cataatatgt attgtatatt	1110

<210> 74
 <211> 521
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(521)
 <223> MAR of chromosome 1 genomic contig; 2863407..2863927

<400> 74	
aatatatata aatatataaa tatatataaa tatatatata tataaatata taaatatata	60
tatgtaaata tatgtaaata tatgtaaata tatgtatatg tatatatatg taaatgtatg	120
taaatatata taaatatatg taaatatata taaatatatg taaatatata aatatatata	180
actatatata aatatatata aatatataaa tataaatata tataaatata tataaatata	240
taaataaata catataaata tataaataaa tacatataaa tatatataaa tatataaaaa	300
tatatataaa tatatatata aatatataaa catatataaa tatataaata tatataaata	360
tataaatata taaatatat aaatatatat aaatatataa atatatatata atatagataa	420
atatagataa atatataaat atatataaat atataaatat agataaatat ataaatatat	480
aaatatataat atataaaaat atatataaat atataaaaat a	521

<210> 75
 <211> 560
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(560)
 <223> MAR of chromosome 1 genomic contig; 5712303..5712869

3024-119-SEQ.ST25

```

<400> 75
atataattat atatataatta tatattatat ataattatat attatatata atgtataatt      60
atatattata tataatatat ataaatatat atatTTTTTTa tataaatata ttatatattt      120
atatattata tataaattta tatatatataa tttttatata ttatatatat ttatatatta      180
tatattgtat atatttatat attacatatt gtatatattt atatattata tattatatat      240
ttatatatta tatattatat atttatatat tatatattat atatatttat atattatata      300
taaattattt atatataata tataaatata tattatataa tataaatttg tatatataat      360
atatatttat attatatata aaatatattat attatatata aaatataata taaatatata      420
catataatat atatattata tttttataat tatatattat atataataca tataatatat      480
aatatataat acatatatat catatatgaa atatatatca tatattatac atattatata      540
taacatatat attatatatc                                             560

```

```

<210> 76
<211> 479
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(479)
<223> MAR of chromosome 1 genomic contig; 8578812..8579290

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<400> 76
tatggtatac atatagtata tatgggggtac atatatggta tatatatggg ttatatatat      60
gatatatatt atatatgtat atggtatata tatggtatat atattataca tgcatatggg      120
atgtatatgg tatatatatg atatatacat atggtgtata tatatgttat atatgatata      180
tataagggtat atatatggta tatataagggt atatatagta tatatatggg atatataagg      240
tatatattgt atatatatgg tatatataag gtatatatat tgtatatatg gtatatatat      300
ggtttatata tatggtgtgt atatatggtg tttatataca cactttatat actatatatt      360
atatacacac tatatataat atatattata tatagttaaa tatatgggtat atgcaattag      420
atatatggta tatgtaatta tatatatggg atatagatgg tgtatatatg gtatatata      479

```

```

<210> 77
<211> 477
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_binding
<222> (1)..(477)
<223> MAR of chromosome 1 genomic contig; 8579294..8579770

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3024-119-SEQ.ST25

<400> 77

tatagtatat	atacacacta	taggtaatat	actacatatt	atatacacac	tataaataaa	60
atatataata	tataatattt	tctatatagt	atatattata	tattgtatat	actatatata	120
atatatacta	tagacagtag	atactttata	tactatagac	agtatatact	atatactgta	180
tacactatag	acagtatata	ctatatactg	tatacagtat	atgtagtgta	tatgtagtgt	240
atataatata	tagtatatat	tatctatact	atatacagta	tatatagtgt	atacataata	300
tatattatat	attatatata	ctatatacag	tatacatagt	gtatatgtag	tgtataatat	360
atataatgtg	tatataaaat	atatatacta	tatataatat	atattatata	taatatatac	420
actatatata	ctatagatac	actatatatt	cactatatat	actatatata	ctatata	477

<210> 78

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(331)

<223> MAR of chromosome 1 genomic contig; 8580024..8580354

<400> 78

actatatgtt	atatacataa	gatatagtat	ataccatata	ttatatacat	tatatatagt	60
gtatactata	tataatgtat	ataatatata	gtatatatac	actatatata	ctatgtatat	120
atacactata	tatactatgt	atatatacac	tatatatact	atgtatatat	acactatata	180
tactatgtat	atatacacta	tatatactat	gtatatatac	actatatata	ctatgtatat	240
atacactata	tatactatgt	atatatacac	tatatatact	atgtatatat	agtgtatata	300
tactgtatat	gttatagtgt	atatatagta	t			331

<210> 79

<211> 410

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(410)

<223> MAR of chromosome 1 genomic contig; 8580705..8581114

<400> 79

tatagtctat	attatataca	gtctatataa	tatatagtat	atactatata	tacttttcct	60
cattctgact	atatactata	tatatactat	atatagtata	tgtagtgtat	atatacacca	120
tatatactat	atatagtata	cataccatat	atagtatact	atacatacca	tatatagtat	180
acataccgta	tatagtatac	tatacttacc	atatatagta	tacatactat	atataatata	240

3024-119-SEQ.ST25

tctgggtgtat atatacacta tatatactat atatactata tatagtatat gtacactatt	300
tatagtatttt atagtatata tactgtatat atagtatgta gtatatatac tatatattat	360
gtagactata tataatatag actatgtgta gagtatatat actatatata	410

<210> 80
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(433)
 <223> MAR of chromosome 1 genomic contig; 12979167..12979599

<400> 80	
atatataata tatatatgtc ctatatataa aatatatcat atatataaat atatatgata	60
tatttttatat attaaatata taattatata taaatatata tttatatata aatatattat	120
ttcaatatat ataaatatat ttaaatatat ttaaatagaa tattaaatat ataaatatat	180
aatttatattt aatatataaa tatatatataa atatataatt atatttaata tatataaata	240
tatattaaat atataattat atattttatat atttattata tataaatata ttttgttct	300
aaataaatat atattctaaa tatataatat tttatattat ataatatata atataaaata	360
tataataaat atataatata taaataaata aatatttatt ataaaataca tataaatatt	420
aaatatatat taa	433

<210> 81
 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(385)
 <223> MAR of chromosome 1 genomic contig; 16336644..16337028

<400> 81	
tttatataaa tatctatata aataaatata taaatatata aatataaata tatataaata	60
tataaataaa tatataaata tatataaata taaatatata tataactatg aatttatatt	120
tatataaata tatatctata tgaatataaa tatatattta tataaatata aatatatata	180
taaatatata tattttatata gatataaata tatatataaa tatatatatt tatatagata	240
taaatatata tctatatatg aatatatatc tataggaata taaatatata tctatataaa	300
tataaatata tataagtata aatatatata aatatatatc tatataaata taaatatata	360
tataaatata aatatatata taaat	385

<210> 82
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(363)
 <223> MAR of chromosome 1 genomic contig; 20624448..20624810

<400> 82
 tatatatata gttatatata tatttatata tatagttata tatatatattt tatatagtta 60
 tatatatagt tatatatata gttatatata tatagttata tatatagtta tatatatagt 120
 tatatatata tagttatata tatagttata tatatagtta tatatatagt tatatatata 180
 tagttatata tatagttata tatatatagt tatatatata gttatatata tatagttata 240
 tatatagtta tatatatagt tatatatata gttatatata tagttatata tatatagtta 300
 tatatatata gttatatata tatagttata tatatagtta tatatatata gttatatata 360
 tag 363

<210> 83
 <211> 310
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(310)
 <223> MAR of chromosome 1 genomic contig; 566025..566334

<400> 83
 tatatataat atatattgta tatattatat attgtatata taatatatat tgtatatatt 60
 atatattgta tatataatat atattgtata tattatatat tgtatatata atatatatat 120
 tgtatatatt atatattgta tatataatat atatattgta tatattatat attgtatata 180
 taatatatat attgtatata ttatatattg tatatataat atatatatatt tatatattat 240
 atattgtata tataatatat atattgtata tattatatat agtatatatatt atatatagta 300
 tatataatat 310

<210> 84
 <211> 1236
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1236)
 <223> MAR of chromosome 1 genomic contig; 1171429..1172664

3024-119-SEQ.ST25

<400> 84

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aaagtattat atgtattata tgtatatgta ttatatatta catatgtatt atatataata    60
tatattatat attattatat attatatatt atatattatt atttatataa tgtattatat    120
attatatagt atatatagta tatataatgt attatatatt atatagtata tatagtatat    180
ataatgtatt atatatagta tatataatgt attatatagt atatatacta tataatgtat    240
tacatattat gtatagtata tgtaatgtat tatatattat atagtatatg taatgtatta    300
tatgtattat atagtatata ttatatatga tgtattattt agtatatata atatatatga    360
tgtattatat aacatatata atatatatga tgtattatat agcatgtata gtatatatga    420
tgtattatat agcatgtata gtatatatga tgtattatat atagcatgta tagtatatat    480
gatgtattat atatagcatg tatagtatat atgatgtatt atatatagca tgtatagtat    540
atatgatgta ttatatatag catgtatagt atatatgatg tattatatat agcatgtata    600
gtatatatga tgtattatat atagcatgta tagtatatat gatgtattat atatagcatg    660
tatagtatat atgatgtatt atatatagca tgtatagtat atatgatgta ttatatatag    720
catgtatagt atatatgatg tattatatat agcatgtata gtatatatga tgtattatat    780
attatatatg gtatatatga tgtattatat attatatatg gtatatatga tgtattatat    840
attatatatg gtatatatga tgtattatat attatatata atatatatga tgtattatat    900
attatatata atatatatga tgtattatat atgatgtatt atatataata tatatgatgt    960
attatatata ttattatcta ttatatacga tgtattatat gcaagttatt atgtataata   1020
tataatgtat tatatattat ataatgtata atatataaat atataaatat ataattatgt   1080
ataaatatag aaatatatac attatacatt atatacatta taatgtataa tatataaata   1140
tattatatat aaatgtatac attatatata aatatattat atacattata tataaaatat   1200
gtatatagtt attatacctt atatatacta aacagt                               1236

```

<210> 85

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(309)

<223> MAR of chromosome 1 genomic contig; 1925173..1925481

<400> 85

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atatatttat ataaatatat tttatataaa tatatattat ataattattat aatatatgtt    60
atattatata tattttatac aatatataat atatattata tatattttat acaatatata    120
atatatatta tatatatttt atataatata taatatatat tatatatatt ttatacaata    180
tataatatat attatatatt atataatata tattatatat attttatata atatataata    240

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3024-119-SEQ.ST25

tatatatttat acaatatata atgtatatca ttatattata taatgtatat catattatat 300
aatgtatat 309

<210> 86
<211> 312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(312)
<223> MAR of chromosome 1 genomic contig; 4396756..4397067

<400> 86
cacagtgtat atatagtata tatactgtat atatactgtg tatatacact gtatatacac 60
agtgtatata cagtatatat actatatata cactgtgtat atatagtata tataaattct 120
aggaatatat atactatata tatactatat atataaattc taggaatata tacacactat 180
atatacacta tatatacaca tatatacact atatatatta tacacatata ttatatatat 240
acactatata tacacgagat atataacata tacactatat actatacata acatatatac 300
tatatatact at 312

<210> 87
<211> 398
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(398)
<223> MAR of chromosome 1 genomic contig; 56057..56454

<400> 87
atatatatta catatttat atataatata tattatataa tatatattat attatataat 60
atataatata aatataatat aaattatatt atataatata taatataaat ataataataa 120
ttatataaat ataatatata ttttattata taatataata tatattatat aaatataata 180
tataaattat ataataaat atatatatta taatataata tttttatta tataaatata 240
tattatatta tataatatat attttattat ataatatata ttatatattt atagaatata 300
atatatattt tattatataa tatatattat ataatatata ttatatttat atataacata 360
tattattata taaaatatgt ataatatata ttatataa 398

<210> 88
<211> 391
<212> DNA
<213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(391)
 <223> MAR of chromosome 1 genomic contig; 56984..57374

<400> 88
 tactataata catattatat ataattattat atactatata ttactatatt attatattat 60
 atataattaa actatattat agtatataat atataatata tactatatgt aatattacta 120
 tgatactgat attatattat atataattaa attatattat attaatatat aaattatata 180
 taatacataa tatataaatt atatttatatt atttatatat aatgtatgcc atataattta 240
 tatataatgc attatatata atttatatat aatgcattaa atataaatta tatataatgc 300
 attatatata attatatata atgcattata tataatttat atttaatatata taaatttata 360
 ttttaatatat ttatatatta tatataataa a 391

<210> 89
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(309)
 <223> MAR of chromosome 1 genomic contig; 469547..469855

<400> 89
 atatatatgt aatatatatg ttatatatgt aatatatatg ttatgttata tatgtttatat 60
 atatgtttata tataatatat atgtttatata tacgtttatat gttatatata tgttatatat 120
 aatatatggt atatatatgt tatatgtttat atatgtttata tataatatat gttatatata 180
 atatatgtta tatatgtttat atataatata tgttatatat attatatata atatatgtta 240
 tatatatattat atataatata taatatatgt gatatatata ataaaatata tgtgatatat 300
 attatatat 309

<210> 90
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(441)
 <223> MAR of chromosome 1 genomic contig; 546190..546630

<400> 90
 atacacaaca tatgtgtata tatatagttat atatacaca catatgtgta tatatatagt 60
 atatatacac aatatatgtg tatatatata gtatatatac acaatatatg tgtatatata 120

3024-119-SEQ.ST25

gtataaatat atactatata tagtatatat agtataaata tatactatat atagtatata 180
catagtataa atatatacta tatatagtat atacatagta taaatatata ctatatatag 240
tatatacata gtataaatat atactatata tagtatatac atagtataaa tatatactat 300
atatagtata tacatagtat aaatatatac tatatatagt atatacatag tataaatata 360
tactatatat agtatatata tagtataaat atatactata tatagtatat acatagtata 420
aatatatact atatatagta t 441

<210> 91
<211> 1367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1367)
<223> MAR of chromosome 1 genomic contig; 124643..126009

<400> 91
atatttatat gatataaat atatataata ttatatataa tattatatat gatataaac 60
attatataat attatatatg atatataatta tatatattat atatgatata taatatatat 120
aatattatat atgatattat atatcatata taatatataa aatattatat atgatatata 180
atatatataa tattatatat attatatata ttatatatca tatataatat tctaaatata 240
taatattata tgatatataa gattatatac attatatata atatataata ttatatatga 300
tatataatat tatatacatt atatataata tataatgtat ataattattat atattatata 360
tttatattat atacaatgta tataatatta tatatcatat atatttatat tatatacaat 420
gtatataata ttatatatca tatataatat tatatacaat gtatataata tatattatat 480
atatttatat tatatacaat gtatataata tatattatat atatttatat tatatacaat 540
gtatataata tatatttatat atatttatat tatatacaat gtatacaata ttatatatta 600
tatatttatat atttatatta tatacaatgt atatattata tattatatat ttatattata 660
tacaatgtat atattatata ttatatattt atattatata caatgtatat attatatatt 720
atatatttat attatatata atgtatatat tatatattat atatttatat tatatacaat 780
gtatatatta tatatttatat atttatatta tatataatgt atgtaattat atatattata 840
tatttatatt atatataatg tatgtaatat tatatattat atatttatat tatatataat 900
gtatgtaata ttatatatta tatatttata ttatatataa tgtatgtaat attatatatt 960
atatatttat attatatata atgtatgtaa tattatatat tatatattta tattatatat 1020
aatgtatgta atattatata ttatatattt atattatata taatgtatgt aatattatat 1080
attatatatt tatatttatat ataatgtatg taatattata tattatatat ttatattata 1140

3024-119-SEQ.ST25

tataatgtat gtaatattat atattatata tttatattat atataatgta tgtaatatta	1200
tatattatat atttatatta tatataatgt atataatatt atatattata tttttatatt	1260
gtatataata ttatatatta tatattttata ttgtatataa tatatattat atattttatat	1320
tgatataat attatatatt atatattttat attatatata atgtata	1367

<210> 92
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(458)
 <223> MAR of chromosome 1 genomic contig; 58908..59365

<400> 92	
tatatgatat atatgatata tatgggatat atatgatata tatgatatat atgggtatata	60
tatgatatat agtatatatg atatatatgg tatatatatg atatatagta tatatgatat	120
atatgggtata tatgatatat agtatatatg atatatatgg tatatatgggt atatatatga	180
tatatgatat atatgatata tatgatatat gatatatatg atatatatga tatatatgggt	240
atatatgata tatatgggtat atatgggtata tatatgatat atatgatata tatgggtatat	300
atatgatata tatgatatat atgggtatata tatgatatat atgatatata tgggtatatat	360
atgatatata tgatatatat ggtatatata tgatatatat gatatatatc atatatatgg	420
tatatatatg atatatatga tatatatcat atatatgg	458

<210> 93
 <211> 330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(330)
 <223> MAR of chromosome 1 genomic contig; 306867..307196

<400> 93	
ataatatata aatatatatg atatatatct atatatatca tatataaata tatatgatat	60
atatctatat atatcatata taaatatata tgatatataa atatatatga tatatatcta	120
tatatatcat atataaatat atatgatata taaatatata tgatatatat ctatatatat	180
catatataaa tatatatgat atatatctat atatcatata taaatatata tgatatatat	240
ctatatatat catatataaa tatatatgat atctatctat atatatcata tataaatata	300
tatgatatct atctatatat atcatatata	330

3024-119-SEQ.ST25

<210> 94
 <211> 353
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(353)
 <223> MAR of chromosome 1 genomic contig; 636899..637251

<400> 94
 tatgtatata tatacacata tacgtatata tatacatata tacacatata cgtatatata 60
 tacgtatata tacatatgta tatgtatagc tatacacaca tatgtatatg tatacgtata 120
 cacacatata cgtatatatg tatacgtata cacacatata cgtatatgta tacatatata 180
 tgtgtacata tacgtatata cgtatatgta tacatatata cgtttatgta tatatacgta 240
 tatacgtata tatgtatatg tatacatata tacatatatg tgtatatagc tatatacgta 300
 tatgtgtata tatacaatat acatacatgc acatatatgt gtatatgcac ata 353

<210> 95
 <211> 345
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(345)
 <223> MAR of chromosome 1 genomic contig; 1435510..1435854

<400> 95
 atcatatata ttatatatca tatatatgat atataaaaat tatatatcat atatatgata 60
 tataaaaatt atatatatca tatataatat atataatata ttatatatat aaattatata 120
 taatatatat aaattatata tatcatatat atgatatata atttatatat catatatatg 180
 atatatatata tatattatit atatataata tattatatat tatataatat gtaatatata 240
 ttatatatta catattatat tttttataaa taatatttta taatatatat aatattatat 300
 aatatagaat attatatatt atatattaca tattatataa tatat 345

<210> 96
 <211> 521
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(521)
 <223> MAR of chromosome 1 genomic contig; 39695..40215

<400> 96
 tatatatata atagatatta tatatctatt atatatctat tatatatata atagatatta 60

3024-119-SEQ.ST25

tatatctatt atatatataa tagatattat atatctatta tatatataat agatattata	120
tatctattat atataatata tatctattat atattatata tctattatat ataatatata	180
tctattatat atattatata tctattatat atataataga tattatatat ctattatata	240
taatatatat ctattatata ttatatatct attatatata tgtatctatt atatatatta	300
tgtatctatt atatatataa tatatctatt atatatatat tatatataat atatattata	360
tatattatat atctattata tataatatat atctattata tatattatat atctattata	420
tatattatat atctattata tataatatat atctattata tatattatat atctattata	480
tataatatat attatatata tattatatat tgtatatcta t	521

<210> 97
 <211> 484
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(484)
 <223> MAR of chromosome 1 genomic contig; 1286007..1286490

<400> 97 atatcatata tattatatat catatatatg atatataaaa attatatatc atatatatga	60
tatatataaa ttatatatat catatataat atatataata tattatatat ataaattata	120
tataatatta tatataaatt atatatcaca tatatgacat ataaattata tatcacatat	180
atgatatata atttatatat cacatatatg atatataaatt tatatatcat atatatgata	240
tataatttat atatcatata tatgatatat aatttatata tcatatatat gatatatata	300
atatattatt tatatataat atattatata ttatataata tgtaatatat attatatatt	360
atataaatg taatatatat tatatattac atattatatt atttataaat aatattttat	420
aatatatata atattatata atatagaata ttatatatta tatattacat attatataat	480
atat	484

<210> 98
 <211> 244
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(244)
 <223> MAR of chromosome 1 genomic contig; 73556..73879

<400> 98 attatatatt atattatata atatataata atattatata attatatatt acattatata	60
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3024-119-SEQ.ST25

atatataata atattatata ataatatata attatataat atataataat attatataat	120
attatataat attatataat atataaatat ataataatat atattatatt atataatagt	180
atatattata ttatataata tatgttatta tattatataa tataaactat tatataatat	240
aata	244

<210> 99
 <211> 463
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(463)
 <223> MAR of chromosome 1 genomic contig; 179038..179500

<400> 99 tacaatatat tttctattat atataattttg tattatatat aatatacaat atatttttcta	60
ttatatataa tatattttgt attatatata ttacaatata ttttgtatta tataatatat	120
aatacaatat aatatattgt attatataat atataatact atataatata ttgtattata	180
tattatatat aatactatat aatatatttt attatatatt atataataa ctatataata	240
tattttatta tatattatat ataatacaat atataatata ttgtattata atacaatgta	300
ttataatgta ttatatataa tatataatac aatatataat attatatata tttatatata	360
tatatatttt gtattatata ttttgtatta tatatatttt gtattatata tttatatttt	420
atattataat tatgttttgc attatatatt tcatattata tat	463

<210> 100
 <211> 390
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(390)
 <223> MAR of chromosome 1 genomic contig; 55617..56006

<400> 100 tgtataatat atataacttta tatataatat atataacttta tatatatact atataactaat	60
atatataata tatactatat ataatatata ctaatatata taatatatac actatatata	120
atatatacta atatatatta tatatacttt atataatata tactaatata tataatatat	180
atactttata tataatatat actaatatat ataattgata tactttatat ataatatata	240
ctaatatata atatatatac tttatatata atatatacta atatatatta tatatacttt	300
atatatataa tatatactta tatattatat atgcttatat ataatatata cactaatata	360
taatatatat actttatata ttatatttta	390

3024-119-SEQ.ST25

<210> 101
 <211> 582
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(582)
 <223> MAR of chromosome 2 genomic contig; 1157405..1157986

<400> 101
 tgtatatgta tatatacaca tacgcacata tatgtatatg tatatatata catacgcaca 60
 tatatgtata tgtatatata cacatacgca catatatgta tatgtatatg tatatgtata 120
 tatacacata tacacatata tgtatatgta tatatacaca tatacacata tatgtatatg 180
 tatatatata catatacaca tatatgtata tgtatatata cacatacaca tatatgtata 240
 tgtatatgta tatatacaca tacacatata tgtatatgta tatgtatata tacacatata 300
 cacatatata catatatgta tacatatatg tgtatatata tacacatata tatacatata 360
 tgtatacata tatgtgtata tatacacata tatatacata tatacatata catatatatg 420
 tgtatgtata tatacacata tacatatata tgtatatgtg tatatatatt agacagatat 480
 atatgtacat atacatatat atgtatatgt atatgtatat gtatatgtat atgtatatgt 540
 atatgcatat ataatacaca tatacatata tgtatatgta ta 582

<210> 102
 <211> 322
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(322)
 <223> MAR of chromosome 2 genomic contig; 1858638..1858959

<400> 102
 acaccatata tacaccatat atatacatat catatatata ccatatatat acataccata 60
 tatataccat atatatacat accatatata caccatatat atacatacca tatatatata 120
 ccatatatat acataccata tatataccat atatatacat accatatata taccatatat 180
 atacatacca tatatatata ccatatatat acataccata tatatacacc atatatatat 240
 ataccatata tataccatat atacaccata tatatacacc atatatacac accatatata 300
 ccatatatat acaccatata ta 322

<210> 103
 <211> 914
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(914)

<223> MAR of chromosome 2 genomic contig; 5712196..5713109

<400> 103

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aaatatatat tctatatata gaaaatatat attctatatata tatagaatat atatagaata      60
tatattctat atatattcta tatatataga atatatatat aaaacatata ttctatatat      120
aaaatatata ttctatatat ataaaatata tattctatat atatagaatg tatataaaat      180
atatattcta tatatataga atgtatatata aatatatatt ctatatatat agaatgtata      240
taaaatatat attctatatata tatagaatgt atataaaata tatattctat atatatagaa      300
tatatataac atatatatga aatatatata aaatatatat aaatacatat ttctatatat      360
aaatatatat aaatacatat ttctatatat aaatatatat caatacatat ttctatatat      420
aaatatatat aaatatatat tcatatatat aaaaatatat aaatatatat tcatatatat      480
aaaatatata tgaatatata ttctctatat ataaaatata tataatatat attatatata      540
taaaatatat ataatatata ttatatatat aaaatatata taatatatat tcatatatat      600
aaattatata taaatatata ttcatatata taatatatat aaatatttat ttcatatata      660
aaatatattt aaatatatat ttctatatag aatatatatt ctatatataa aatatatata      720
taaatatatt ttctatatag aaatatatat gaaatatata gaatatatat aaatatatat      780
tatatatact atatatacaa tatatattat atataaaata tatatacaat atatattcta      840
tatattaata tatagaatat atattaacat atatttcaat atattaatat atgaaatata      900
tataaatatt tcat                                          914

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<210> 104

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(370)

<223> MAR of chromosome 2 genomic contig; 5713613..5713982

<400> 104

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tatttcatat ataatatata tataaaatat atatttcata tacataatat atataatata      60
ataaaatat atatttcata tatataatat atataatata tataaaacat atatttcata      120
tataatatat ataaactata tatttcatat ataatatata taaactatat atttcatata      180
cataatatat ataatatata tttcatttat attatatata taatatatat ttcatatata      240
taatataata aatagatata aatatatata aatatatatt tcatatataa tatatataaa      300

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3024-119-SEQ.ST25

atatatatatta atatatatatt tatatataat atatatatatt catatatataa tataaaaaaa 360
tatatatattc 370

<210> 105
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(442)
<223> MAR of chromosome 2 genomic contig; 7481647..7482088

<400> 105
atataaatta tataatatgt tatataatat ataaatatat tatataacat gttatataat 60
atataacatg ttatataata tataacatgt tatataatat ataacatggt atataatata 120
taacatgtta tataatatat tatgtaatat gttatataat atataatata ttatataaca 180
tggtatataa tatataacat gttatataat atgttatata atatataaat atattatatt 240
atatgttata taatatataa atatattata ttatatgtta tataatatat aaatatatta 300
tattatatgt tatataatat ataaatatat tatattgtat gttatataat atataaatat 360
attatatgt atgttatata atatataaat atattatatt gtatgttata taatatataa 420
atatattata ttatatatgt ta 442

<210> 106
<211> 338
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(338)
<223> MAR of chromosome 2 genomic contig; 9594557..9594894

<400> 106
tatataaata tataccatat atataaatat atatattcca tatataaata tatatatattcc 60
atatatataa atatatatat tccatatata aatatatata ttccatatat ataaatatat 120
atataaatat atatattcca tatatatataa tatatatata aatatatata ttcatatata 180
aatatatata tattccatat ataaaaatat atatatatcc catatatataa aatatatata 240
tattccatat atataaatat atatatatcc catatatata aatatatata tattccatat 300
atataaatat atatatatcc catatatata aatatata 338

<210> 107
<211> 364
<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(364)

<223> MAR of chromosome 2 genomic contig; 10519720..10520083

<400> 107

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ttatatatat ttataataat atatataagc tatatatatt tatatataat atattatata      60
tattagctat atatatttat ataataatat attatatatt agctatatat atttatatat      120
aataatatat aaagctata tttttatata tattatatat tagctatata tttttatata      180
taatatatta tatattagct atatatttat atataataaa taatatatat attagctata      240
tatatttata tataataata tatataagct atatatttat atataatata ttatatatta      300
gctatatata tttatatata ataatatatt atatattagc tatatatatt tatatataat      360
atat                                                                                   364

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<210> 108

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(342)

<223> MAR of chromosome 2 genomic contig; 11481943..11482284

<400> 108

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tacatataat atataattat atataatata tattatatat tacatatata atatatatat      60
tacatatgta atatatatat tatatatgta atatatatta tatatgtaat atatatatta      120
tatatgtaat atatattata tatatgtaat atatatatta tatatgtaat atatatatta      180
tatgtaatat atatatgtaa tatatatata atatatatgt aatatatata taatatatat      240
gtaatatata tataatatat atgtaatata tatattatat atatgtaata tatatcatat      300
atatgtaata tatatcatat atatgtaata tatatcatat at                                                                                   342

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<210> 109

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(415)

<223> MAR of chromosome 2 genomic contig; 13499598..13500012

<400> 109

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tatatatata tatatatata atataatata atatatatat aaatatatat aatataaatt      60

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3024-119-SEQ.ST25

tatatatata tatttatata tacatatata aatatatatt tatatttata tataaatata	120
tataaatata tataaatata tatttatata tacatatata aatatatatg ttcatatataa	180
tatatatgta tatatacata tataaatata tatttatatat gtatatatat aatataatat	240
ataataataa tataatatat attatatataa tataatatat tatatatataat atatataata	300
tataatatat aatatataat atataatata tatttatatat tatataatat ataaaatata	360
tatttatataa tatatatata taatatatat aaataaatat atataaagat ataaa	415

<210> 110
 <211> 330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(330)
 <223> MAR of chromosome 2 genomic contig; 16370976..16371305

<400> 110 catttacata tgtatgtata agtatgtata ttacatactt atacatacat acttataaat	60
atataagtat aatacacata tactttataaa tatataagta taatacacat atactttatac	120
atatataagt ataatacata cataacttata catatataag tataatacat acatactttat	180
acatatataa gtataatata tacatactta tacatataag tataatacat acatactttat	240
acatatataa gtataatata tacatactta tacatatata agtataatac atactttatta	300
catatgtata taagtatat acatactttat	330

<210> 111
 <211> 702
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(702)
 <223> MAR of chromosome 2 genomic contig; 626641..627342

<400> 111 tatatatata catatacata tataatatat atacatatata atatataatta tatatacata	60
tatattacat atatcatata tacatatata ttatatatac atatataatta tatatatcat	120
atatacatat atatattata tatttatatat atcatatata catatatatt atatataatta	180
tatatatcat atatacatat atatttatata tatttatatat acatatatat tatatatatc	240
atataaacat atatattata tatatcatat atacatatat attatatata ttatatatat	300
catatatata tatatattat atatatcata tataatatat attatatata ttatatataa	360
tatatattat atatacatat atatttatata tacatatata ttatatatac atatataatta	420

3024-119-SEQ.ST25

tatatacata tatatttat atacatatat attatatata tacatatata ttatatatac	480
atatatatta tatatacata tattatatat acatatatat tatatatata tatatttat	540
atatacatat atattatata tacatatatt atatatatac atatatatta tatatacata	600
tattatatat atacatatat attatatata catatattat atatacatat atattatata	660
tacatatata ttttatatat atataatata ttttttatat at	702

<210> 112
 <211> 679
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(679)
 <223> MAR of chromosome 2 genomic contig; 3196047..3196725

<400> 112	
atatattata tattcatata tcataaatat atatattata tattcatata ttatatatct	60
atatatttat atattcatat attatatatc tatatattta tatattcata tattatatat	120
ctatttatat attcatatat tatatatcta tatattttat atattcgtat attatatatc	180
tatatattat atattcgtat attatatatc tatatattat gtattcatat atatctatat	240
attatatata ttcatatata ttataaatta tattcatata gtatatatct attataaatg	300
tatattcata tagtatatat ctatatatta taaatataca tatatttat atttatatat	360
tatatattca tatagatcta tatatttat atattcatat atgaatatat atattatatg	420
tatatatatt ataaatatat ttatatagta tagatattat atagtatatg catatttata	480
ttataaataa ttacatagt atatgtatat ttataaatta tatatattta catattacat	540
gtatatttat atattataaa tacatattta catattataa atatatttat atattatgaa	600
tataatttat atattattac atatttacat atatgcatag ttatatatta taaatatgca	660
tttatgtaaa tatatattt	679

<210> 113
 <211> 728
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(728)
 <223> MAR of chromosome 2 genomic contig; 3196778..3197505

<400> 113	
tacataaata tatatttaca atatgtaa atctgatatg taaatatgta tttataatat	60

3024-119-SEQ.ST25

ataaatatac atataatatg taaatatata aatatacata tactatgtaa atatatgtta	120
tatatatacata tactatataa atatagaata tataaatata catatactat ataaatatgt	180
aatatataaaa tatatactat ataaatatac atatactata taaatgtatt tataatatat	240
aaatatacat atactatata aattcatata tgaatatata atatataaat atatataata	300
tatgaatata tactcatata taaatatata tgaatatata tttataatat atagatataa	360
tatgaatata tttttataat atatagatat atatttatatg aatatatatatt tataatatat	420
agatatatac catatgaata tatattatac actatatgaa tatatatatta taatatataa	480
atagatatat actatatgaa tatataatat atatactcta tgaatatata atatatac	540
tatatgaata tatttatatac tgtatgaata tataatatat agatgtatac tatatgaata	600
tataatatat agatatatat actatatgaa tatatataat atatagatat atactatatg	660
aatatatatg atatatagat atatactata tgaatatata atatatagat atatatttat	720
gatatatg	728

<210> 114
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(413)
 <223> MAR of chromosome 2 genomic contig; 2560638..2561050

<400> 114	
atataaatat atatttatat attttatata aatatatata tttatatatt tttatataaa	60
tatatatatatt tatatatatt tatataaata tatatatatta tatatatatta tataaatata	120
taaatatata tttttatata aatatataaa atatataaat atattttatat aaatatataa	180
aatatataaaa tatattttata taaatatata aaatatataa atatattttat atataaatat	240
ataaaatata taaatatctt tatatataaaa tatataaaat atataaatat ctttatatat	300
aaatatataa aatatataaa tatattttata tataaatata taaaatatat aaatatattt	360
atatacaaat atataaaata tataaatata tttatatata aatatataaa ata	413

<210> 115
 <211> 361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(361)
 <223> MAR of chromosome 2 genomic contig; 4965309..4965669

3024-119-SEQ.ST25

<400> 115
tatacgtata tatacatata tatacgtata tatatacata tatatacgtata tatatacata 60
tgtatatatg tgtgtacatg tatatatata catatgtaca tatatatgta cacatatata 120
tatacatata tatgtacaca tatacatata tatgtacaca tatacatata catatatatg 180
tacacatata tatacatata tatgtacaca catatatata catatatatg tacacacata 240
tatacgtata tatgtacaca catatatatg tatatatatg tacacacata tatacgtata 300
tatatgtaca cacatatata tacgtatata tatgtacaca tatatatata cgtatatata 360
t 361

<210> 116
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(325)
<223> MAR of chromosome 2 genomic contig; 5258150..5258474

<400> 116
tacacacaca tatacatata tacatatata cgtgtatacgtata tatacgtata tacgtatata 60
tacatatatg tatacgtata cgtatatatg tatatatata tatatgtata cgtatacgtata 120
tatacgtata tatacatata tgtatacgtata tacgtatata cgtatatata catatatgta 180
tacgtatacgtata tatatacgtata tatatacata catatgtata cgtatacgtata tatatgtata 240
tatacgtata tgtatacgtata tacatatata cgtatatata cgtatatgta tatgtatata 300
cgtatatgta tatatgtata tatarac 325

<210> 117
<211> 1508
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1508)
<223> MAR of chromosome 2 genomic contig; 6057499..6059006

<400> 117
atataatata tataaattat ataatatata aaaattaata tataatatat ataaattata 60
taatataata ataatata taatatatat aaattatata atatatata taattatata 120
atatataata attatata acatatata taattatata atatatata tatataatat 180
atacaatta tatactatat taattatata ttatatatt aattatata tatatatata 240
ttatatata ttaattat tatataatat ataaattata taatatata ataatata 300

3024-119-SEQ.ST25

taatatataa attatataat atataaatta attatataat atataaatta tataatatat	360
aaattaattg tataatatat aaattaatta tataatatat aatatataat taataaataa	420
ttatatatta attatataat taataaataa ataataaata tatataatta atatataata	480
tacatcatat atatacacata tagattatat aatagttata tattatataa taaattatat	540
ataatatata ataaacatat ataacatatg ttatatatta cataatatag tataatatat	600
aacatatgtt atatattaca taatatagta taatatataa catgtttatat attacataat	660
atagtataat atataacata tgttatatat tacataatat agtataatat ataacatatg	720
ttatatatta cataatatag tataatatat aacatatgtt atatattaca taatatagta	780
taatatataa catatgtttat atattacata atatagtata atatataaca tatgtttatat	840
attacataat atagtataat atataacata tgttatatat tacataatat agtataatat	900
ataacatatg ttatatatta cataatatag tataatatat aacatatgtt atatattaca	960
taatatagta taatatataa catatgtttat atattacata atatagtata atatataaca	1020
tatgtttatat attacataat atagtataat atataacata tgttatatat tacataatat	1080
agtataatat ataacatatg ttatatatta cataatatag tataatatat aacatatgtt	1140
atatattaca taatatagta taatatataa catgtttatat attacataat atagtataat	1200
atataacata tgctatatat tacataatat agtataatat atatgtttata tattacataa	1260
tatagtataa tatataacat atgtttatata ttacatatta tagtataata tatatgtttat	1320
atattatata atatagtata atatataatg tatgtttatat attatataat atagtataat	1380
atataacatg ttatatatta tataatatag tataatatat atgtttatata ttatataata	1440
tagtataata tataatatat gttatatatt atataatata gtataatata tatgtttatat	1500
attatata	1508

<210> 118
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(415)
 <223> MAR of chromosome 2 genomic contig; 7996866..7997280

<400> 118	
caattatata atatacatat tatataattg tataaattat acaatcatat aatttatatta	60
tatataatat acatataata taattatata taattatata attttataat ataattatat	120
ataattatat aatttatatat aatatatatt ataattatat atataatata tatattatat	180
atattatata taatatataa ataatatata taatatatat ataattatat ataataatat	240

3024-119-SEQ.ST25

atgtaataata tataatatat atataaatata ttattttataa ttatatatta tatatatatt	300
ataatatata taattataaa taatatatat tataatatat ataataatat atatataatt	360
atatataata atatatatatta taattatata taataaatata tataatttat ataata	415

<210> 119
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(526)
 <223> MAR of chromosome 2 genomic contig; 8300930..8301455

<400> 119	
tatatcatat gatataattat acaatatatc atataaatatg atatattata tgatatattg	60
tacaatatat catatgatat atgatatatatt atacaatatata tcatataagg tatatatattat	120
atcatatatata atatataata taatatatga tataatatat gatatatgat atataaatata	180
tgatatatga tatatgatat ataatatatg atatatgata tatgatatat aatatatgat	240
atatgatata tgatatataa tatatgatat atgatatatg atatgatata tgatatatga	300
tataatatat gatataaatat atgatatatata ttatatgata tataatatat gatataattt	360
atatgatata taatatatga tatataaatat ataatatatg atatgatata tattatatca	420
tatataaatat ataatatataat atatgatata tattatatat ttttatacat tatatatata	480
aactatataa caatatataca tattatgtgt ataatatata ttacat	526

<210> 120
 <211> 402
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(402)
 <223> MAR of chromosome 2 genomic contig; 8576553..8576954

<400> 120	
atgtatatta tatacaatat agtatatcat atatagtata tattatatag taatgtatta	60
tatataatgt ataatgtata aatatataat atatactaca tactatacta ttatatatac	120
tatatattat atatgatata tatactatat aatatgctat atattatact atataaatatg	180
ctatatatta tactatataa tatgctatat attatactat ataatatgct atatattata	240
ctatataata tgctatatat tatactatat aatatactat ataatatgct atatattata	300
ctatataata tactatatat tatactatat aatatactat ataacatact atatattata	360
tatgatacat atactatatt acatatataa tatatatata ta	402

3024-119-SEQ.ST25

<210> 121
 <211> 477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(477)
 <223> MAR of chromosome 2 genomic contig; 8785649..8786125

<400> 121
 tttttatata tatatttata tatatatatta tatatatatta tatatatatt tatatatata 60
 tttatatata tttttatata tttatatata tatattttta tatatttata tatatatatta 120
 tatatttata tatatttata tttatatata tttttatata tttttatata tttttatata 180
 tatatatatta tatatatatta tatatatata tttatatata tttatatata tttatatata 240
 tttttatata tatatttata tatatatattca tatatatatta tatatatatt catatatatt 300
 tatatatata tttatatata tttatatata tttttatata tatatttata tatatttata 360
 tatatttata tatatatatta tatatatatt tatatatata tttttatata tatatttata 420
 tatatatatt tatatatata tttatatata tatatttata tatatatatta tatatat 477

<210> 122
 <211> 773
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(773)
 <223> MAR of chromosome 2 genomic contig; 10064737..10065509

<400> 122
 atattatata tattacatat atatttatatt gtatataata tatatatatt attgtatata 60
 atatatatat tatattgtat ataatatata tatttatattg tatataatat atatattata 120
 ttgtatataa tatatttatat tgtatatatt atattgtata tatttatattg tatacaatat 180
 atatttatatt gtatacaata tatatttatat tgtatataat atatttatatt gtatataata 240
 tatttatattg tatatatatt attgtatata atatattata ttgtatataa tatatttatat 300
 tgtatatatt atattgtata taatatatta tatgtatata atatagtgtata tactatatta 360
 tataatatat attatataca atatataata tattgtatat catatatgat atattgtata 420
 taatatataa tatatgatat attgtatata atatattata tatgatatat tgtatattat 480
 atattatata tgatatattg tatatttatat attatatatt gtatatattgta tatttatatat 540
 tatatatattg atataatatg ttatatattg tatataatat gttatatatt atatattgta 600

3024-119-SEQ.ST25

tatatgttat atattatgta ttgtatataa tatgttatat attatatatt gtatataatg	660
tattatatat tatatatatt atatatgtga tataatgtat tatatatgtt atattatata	720
ttatatattg tatataatat attatataca ttatattata tattatatat tgt	773

<210> 123
 <211> 1554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1554)
 <223> MAR of chromosome 2 genomic contig; 1039775..1041328

<400> 123	
ataatatatt aaatgtatat ataatatatt aaatataaat atatttataa tatataaata	60
tttatataaa tataaaatat atattaaata taaatatata taaaatatat attaaatata	120
taaaatataa atatatatta aatatatatt aaatatataa aatataaata tatattaaat	180
atatttttaa tatataaaat ataaatatat attaaatata ttttaaatat attaaatata	240
aatatatatt aaatatattt taaatatatt aaatataaat acatatatta aatatatatt	300
atatatataa aatatataaa atataaatat atattaaata tatataaaat atatatgtta	360
aatatataaa agatatataa aatataaata tatattaaat atatatataaa tatatatata	420
ttaaatatat atattaaata taaatatata taaaatataa atatatgtat taaatatata	480
tattaaatat aaatatatgt attaaatata tattaaatat gaatatatgt attaaatata	540
tattaaatat aaatatatgt attatatata tagaatataa atatatgtat taaatatagt	600
atattaaata taaatatata taaaatatat attaaatatg aatatatata aaatatatat	660
attaaaaata tatataatat aaatatatat aaaatatata tattaaaaat atatatata	720
taaatatata taaaatatat atattaaaaa tatatatataa atatatatat taaaaatata	780
tataaaatat atatatataa aatatatata aaatatatat attaaaaata tatattaaat	840
ataaatatat atattaaaaa tatatatataa atataactat atattaaata tatattaaat	900
ataactatat attaaatata tattaaatat aactatatat taaatatata ttaaatataa	960
ctatatatta aatatatatt aaatataact atatatataa tatatatataa atataactat	1020
atattaaata tatattaaat ataactatat attaaatata tattaaatat aactatatat	1080
taaatatata tgaaatataa ctatatatta aatatatatt aaatataact atatgtatta	1140
aatataaata tatgtcttaa atatatatta aatataaata tatgtattaa atatatatta	1200
aatataaata tgtgtattaa atatatatta aatataaata tgtgtattaa atatatatta	1260
aatataaata tgtgtattaa atatatatta aatataaata tgtgtattaa atatatatta	1320

3024-119-SEQ.ST25

taaatataaa tatatgtatt aaatatatat taaatataaa tatatattaa atatatatat	1380
taaatataaa tatatattaa atataaatat atatattaaa tatatatatt aaatataaat	1440
atatataaaa tatatatatt aaatataaat ataaatataa aatatatatt aaatataaat	1500
acatatatta aatatatgta ttaaatatat atataaaata tatgtattaa atat	1554

<210> 124
 <211> 650
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(650)
 <223> MAR of chromosome 2 genomic contig; 3944813..3945462

<400> 124	
catgatatat tatgtataat atatattata gattacatat aaattatata tataatatat	60
aattatataa tatataatat tatataatat attatatata ttatacaatt atataatata	120
tataatatat aattatataa tatataatat acaattatat aatatataat acaatataat	180
atatatttaa tatattatat aatacatatt taatatatta tatattatat gttatatact	240
aaatatataa tatgtattta atatatacta ttatatatgt aatatattat ataatttatg	300
taacatatta tatattatat atgcaatata ttacatgtta catatatatt acatataata	360
tatgtaatat ataatatata ctatattatt atagtatata atatactata ttatgtaatt	420
atataatata gtatattata cactatatta tattatcata taattatata ttatatacta	480
tattacatat atattatgta atataaatatg caatatgtta catatatat atatatgtat	540
tatatagtat atatactata gtatatataa aatatatgct ataatatata ttttatatat	600
tatataatat acatataatgta tcatatatta tatataatat attttataat	650

<210> 125
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(441)
 <223> MAR of chromosome 2 genomic contig; 5314265..5314705

<400> 125	
tataaatata tatgaaatat atataaatta tatataattt atatatacat atataaatta	60
tatataaatt atatataaat tatatatata tatataaatt atatattata tataaaattg	120
tatatattta tatataaatt gtatatataa tttatatata aattgtatat ataatttata	180
tatacaatgt atatattaat ttatatatac attgtatata taatttatat atacattgta	240

3024-119-SEQ.ST25

tatacaat	atatatacat	tgtatatata	at	ttatatata	acattgtata	tacaatttat	300	
atataaatta	tattat	ttat	atatag	tata	ataaatata	tatactatat	ataaattata	360
tatttatt	tata	ttatat	tata	taaattatat	attatttata	tatacattat	420	
atataaatta	tatattat	tt					441	

<210> 126
 <211> 1169
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1169)
 <223> MAR of chromosome 2 genomic contig; 5953971..5955139

atgtattcat	attatatatt	tatatataaa	taatatacat	tcatattata	tatttatata	60
taaataatat	atattcatat	tatatattta	tatatataa	tataatata	ttatgtataa	120
ataatatata	tattcatatt	atatatttct	atataaataa	tatatatatt	catatttatat	180
atttatatat	aaatatataa	tatatttata	tataaatata	taatataatt	atatataata	240
tatatattca	tatttatata	ttatatataa	atatataata	tatttatata	taaataatat	300
atatattcat	attatatatt	tatatataaa	taatatacat	tcatattata	tatttatata	360
taaataatat	atattcatat	tatatactta	tatatataa	atatatattc	atatttatata	420
cttatatata	aataatatat	attcatatta	tatatttata	taaaaataat	atatattcat	480
atttatatt	tatatataat	atatatattc	atatttatata	tttatatatt	ctatatattc	540
atatttatata	tttatatata	aataatgtat	attcatatta	tatatttata	tataaataat	600
gtatattcat	attatatatt	tatatataaa	tatatattca	tatttatata	ttatatataa	660
atatatattc	atatttatata	tttatatata	aatatatatt	catatttatat	atttatataa	720
aatatatata	ttcatattat	atttatatat	aaatatatat	attcatatat	atatttatat	780
ataatatata	tattcatatt	atatattt	atataatata	tatattcata	ttatatattt	840
atatataaat	aatatatata	ttcatattat	atatttatat	ataaataatg	tatattcata	900
ttatatattt	atatataaat	aatgtatatt	catatttatat	atttatatat	aaatatatat	960
attcatatta	tatatttgta	tataaatata	tattcatatt	atatatttgt	atatatattc	1020
atatatattt	atatataaat	atataatatt	catatttatat	ataaatatat	atattcatat	1080
tatatattta	tatatataaa	taatatacat	tcatattatt	tatatatata	aataatatat	1140
attcatatta	tttatatata	taaataata				1169

3024-119-SEQ.ST25

<210> 127
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(653)
<223> MAR of chromosome 2 genomic contig; 6427669..6428321

<400> 127
tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 60
tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 120
tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 180
tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatacatgtg 240
tacatgtgta tacatatatg tatacatgtg tacatgtgta tacatatatg tatacatgtg 300
tacatgtgta tacatatatg tatatatgtg tatacatata tgtatatatg tgtatatatg 360
tatacatata tgtatataag tgtatatatg tgtatatgta tataagtgtg tatatgtgta 420
tatgtatata agtgtatata tgtgtatatg tatataagtg tatatatgtg tatatatgta 480
tacatatatg tatatatgtg tatatatgtg tatatgtata taagtgtata tatgtgtata 540
tatgtatata tatatatgtg tatatatgta tacatatatg tatatatgtg tatatatgta 600
tacatatatg taaatatgtg tatatatgtg tatatgtata taagtgtata tat 653

<210> 128
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(414)
<223> MAR of chromosome 2 genomic contig; 10890453..10890866

<400> 128
tatatatttg aaatatatat atagtaaata tatgtaaata tatatatattt gtaaatatat 60
atatatatttg taaatatatg taaatatata tatatttgtaa atatatgtaa atatatatat 120
tttgtaaata tatgtaaata tatatatattt gtaaatatat gtaaatatat atattttgta 180
aatatatgta aatatatata ttttgtaa attatgtaaat atatatattt tgtaaatata 240
tgtaaatata tatatatattt gtaaatatat atacatatat attttgtaa tatataaaca 300
tatatatattt ataaatatat ttataaatat atatattgta aatatattta taaatatatt 360
tataatatat atattgtaa tatgtttata aatatatata ttgtatatat aaat 414

<210> 129

3024-119-SEQ.ST25

<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(496)
<223> MAR of chromosome 2 genomic contig; 13952568..13953063

<400> 129
taatatacat attatatatt atatattgta tatataatat acatattata tattatatat 60
tgtatatata atatacatat tatatattat atattgtata tataatatac atattatata 120
ttatatattg tatatataat atacatatta tatattatat attgtatata taatatacat 180
attatatatt atatattgta tatataatat acatattata tattatatat tgtatatata 240
atatacatat tatatattat atattgtata tataatatac atattatata ttatatattg 300
tatatataat atacatatta tatattatat attgtatata taatatacat attatatatt 360
atatattgta tatataatat acatattata tattatatat tgtatatata atatacatat 420
tatatattat atattgtata tataatatac atattatata ttatatattg tatatataat 480
atacatatta tatatt 496

<210> 130
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(317)
<223> MAR of chromosome 2 genomic contig; 16942865..16943181

<400> 130
tctcctagta gttatatata tatatatgtg tatatatata taccctagta gatatatata 60
tatatatatc ctagtagata tatatatata tatatccctag tagatatata tatatatata 120
tcctagtagt tatatatata tatatatcct aacagttata tatatatata tcctagtagt 180
tatatatata tatatccctag tagttatata tatatatata tcctagtagt tatatatata 240
tatatccctag tagttatata tatatatatc ctagtagtta tatatatata ttatatatta 300
tataatatat atataat 317

<210> 131
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(464)

<223> MAR of chromosome 2 genomic contig; 17217049..17217512

<400> 131

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acatactata tatatacaca tactatatat actatataca gtatatagta tacatatact      60
atacatatac atatactata catatacata tacatatact aagtatacgt atatacagta      120
catagtatat gtatactata tagtatgtat atatagcata tagtatgcgt atactctata      180
tagcatatag tatgcatata cgctatatag catatagtat gcatatacta tatatagtat      240
agagtatgcg tatactatat atatagtata gagtatgcgt atactatata tatagtatag      300
agtatgcgta tactatatat atagtataga gtatgcgtat actatatata tagtatagag      360
tatgcgtata ctatatatat agtatagagt atgcgtatac tatatatata gtatagagta      420
tgcgtatact atatatatag tatagagtat gtatatatat agta                        464

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<210> 132

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(430)

<223> MAR of chromosome 2 genomic contig; 19647266..19647695

<400> 132

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tgtaaataata tgtaaataata tttttatatt atatattata taaaaataata atatataata      60
tataatatat aaactatata ttaatatata atatataaac tattatataa atacatatta      120
aatatattat atttttaata tttatatatt aaatataata tatatttaat atttatatat      180
taaatatata atatatttaa tttttatata atatatagca ttttttatat ttatattata      240
tataacattt tatatttata ttttatattt tatatattta atttatattt atattatatt      300
tatatttata ttatatataa cataattata tatattttca tattgtatat aataaagaaa      360
tgtatatttg ttatatataa tatatattat ataatttatt atatattata taatatatat      420
tatataatat                                     430

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<210> 133

<211> 2131

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(2131)

<223> MAR of chromosome 2 genomic contig; 20481223..20483353

<400> 133

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tatatatata tatatttata tttaatatat atttatataa atatattttt atataaatat      60

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3024-119-SEQ.ST25

atattttaata taaatatctt tatattttaat atatatatttaa tataaatatc tttatatatta	120
atatatatatt atatataaat atatatatttat atttaaatata tattaatatt taatatacgt	180
ttatatatttaa tatatatctt tatataaata tatttatattt aacatatatt tatatatataa	240
tatatatttata tttaatatat ttacatatata atatatatttat atgtaatatata tttacatatata	300
aatatatatta tattttaatat atatgcatat gtaaatatat ttatatatttaa taatatatttat	360
atataaatat atttatattt aataatatatt atatataaat atattttatat ttaatatata	420
ttaaatatat atttatattt aatatatatatt aatatattta atatatatttat atttaaatata	480
tatttatatat aaacatatat ttatatatttaa tatatatatttat atataaacat atattttatat	540
ttaatatata ttatatataa acatatattt atattttaata tatattttata tttaatatat	600
tatatataaaa catatatatta tttttaatat atattttatat taaatatata ttatatataa	660
acatatattt atattttaata tatattttata ttaaatatat atttatattt aatatatata	720
tattaaatat atattttatat ttaatatata ttttatattaa atatatattt atatttaaata	780
tattttatat taatatatat ttatatattaa tatatatattaa atattttaata tatattttata	840
tttaatatat acatatatat ttatatatttaa tatatacata tatattttata tttaatatat	900
acatatatat ttatatattaa tatatacata tatattttata tttaatatat aaatttatat	960
tttatatata taaaaatata tttttatat taatatatat aaatatatat ttatatattaa	1020
tatatatatatt tatattgaat atatacataa atatatattt atattttaata tataaacata	1080
tattttatat tatatatattaa atatatattt atattttaata tataaatata tttttatat	1140
taatatattt atatatacta atatatatttat atttaaatata ttttatatata gatatatatta	1200
tattttaatat atttatgtgt attaatatat ttatatattaa tatattttata tattaatatata	1260
tttatatttt atattttatat attaatatat ttatatattta tttttatat ttatatattt	1320
atatatattat atattttatat ttatatatat ttttatatat taataaattt atattttata	1380
tattttatata ttaataaatt tatatttttat acagttatat aaatatattt atattttata	1440
cagttatata aatatattta ttttttatag ttatataaat atattttatat tttatacagt	1500
tatataaata tttttatat ttatacagtt atataaatat atttatattt tatacagtta	1560
tataaatata ttttatattt atacagttat ataaatatat ttatatattta tacagttata	1620
taaatatatt tatatttttat acagttatat aaatatattt atattttata cagttatata	1680
aatatatatta ttttttatac agttatataa atatatatttat attttatata gttatatataa	1740
tatatatttg ttttatacat ttatataaat atattttatat tttatacatt tgtattttaat	1800
atatatatttat atataaatat atttttatatt taatatattt atatataaat atatatgat	1860
atttaaatata tttttatat taaatatata ttgatattta atatgtttat atataaatat	1920

3024-119-SEQ.ST25

atattttatat ttaatatata tgtttatata tcaatatata tttatatatta atatataattt	1980
acatatataat atatattttat atttgatata ttttatattt tgatatatat tttatatata	2040
ttaatatatt tacatttgat atatatttta tatatatataa tatattttaca tttgatatat	2100
attttatata tattaatata tttacatttg a	2131

<210> 134
 <211> 842
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(842)
 <223> MAR of chromosome 2 genomic contig; 20483478..20484319

<400> 134	
tatatatttta tgtttaatat atattttatag ataaatatat attttacgttt aatatatatt	60
tatagataaa tatatatatta cgtttaatat atattttatct ataaatatat ttacgtttta	120
tatatatttta tatattaata tttttatggt taatatatat ttatatatat taatatattt	180
atgtttaata tatattttata tattaatata tttatgttta atatattttat atatattaat	240
atattttatgt ttaatatata tttatatggt aatatatttta ggtatatata tttttatatg	300
ttaatatata ttttatattaa tatatttatat ttatatataa aagtatatat aatatataaa	360
tatttatataa attatttatat agtatttttta tatatatatta tatataaatt ttatatattt	420
tatatatata aatatatatt tatatatata ttttatatat aaatatatat ttatatatac	480
attatatata taaatatata tttttatatt ttatatataa atatatatat ttatatatac	540
atttttatata ttttatatat gtaaatatat atataaattt tatatatattgt atatataattt	600
ataaatttta tatatatatt tatatatata atatatatata tatatatataa ttttatatat	660
attatatata ttttatatttt atatattata tttttattta tatatatatta tatgtttatat	720
atattttatat ttatatattt tttttatttta tatattttat atatataattt atatatgtat	780
attatatata ttatatatta tataatatat tatatatatt atattatata ttttatattat	840
at	842

<210> 135
 <211> 645
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(645)
 <223> MAR of chromosome 2 genomic contig; 20897566..20898210

3024-119-SEQ.ST25

<400> 135
 gtatatttat attatatatt atataatata tattatatat taataaatta tatataatat 60
 aatatatatg tatatttata tttatgttat aatatacata taattatata tgtatgtata 120
 catgtataca tatacgtata tgtgtatatg tatacatata ggtatatgtg tacatgtata 180
 catataggtat tatgtatatg tatacatgta tacatataat ataattacat atgtatgtat 240
 acatacatat gtaattatat tatatatgta tatgtatatatt tatataatat ataatatgta 300
 ttatatatta tacatgcata tttatatgta tattatatat acacatataa tataattata 360
 tatgtatgta tatatacaca tatatatatta tattatatat gtatattata tacatatatt 420
 tatattatat atgtatatat atttatcata tttatatgta atatgcatgt gtaataaata 480
 atatacacat ttatatatgt atattatata catatatatta tattgtatat gtatatatat 540
 ttatatatat ttgtatatca tatatttata tattgtatat ttatgtatat tatatatatta 600
 tatattatat atgtattata taatatatat gtaaatatat attat 645

<210> 136
 <211> 722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(722)
 <223> MAR of chromosome 2 genomic contig; 21664541..21665262

<400> 136
 tataatatat attatatattct atataaatatg taaaatatat attatatattct atataaatgta 60
 ttatatatag aatataatat attctatgta ttctataatc tatataatac atatttatata 120
 ttatatagaa tattataaat aatatattct atatttatata tagaatatat tctatatggt 180
 tatatttctat atatttatata tgaaatagta tataaaatat atataatatata tataaaatat 240
 gatatatat atatatataaa taatatataa tgtataatat ataaaataat atataaatgta 300
 taatatataa aataatatat aatgtataat atataaaata atatatatatg tatatttatat 360
 aaaataatat ataattgtata ttatatataa aataatatat aatgtatatatt atatatataaa 420
 taatatataa tgtatatataa ataatatata atatattata tataaaataa tatataatat 480
 attatatata aaataatatata tattatatat aaaataatat ataatatatt atatatataaa 540
 taatatatat tatatatataa ataatatata atatattata tataaaataa tatatatattat 600
 atataaaata atatatatta tatataaaat aatataatat atatttatata taaaataata 660
 tataatatat tatataaaaa tataaatata ttatatataaa atataaaata taaaatatta 720
 ca 722

3024-119-SEQ.ST25

<210> 137
 <211> 305
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(305)
 <223> MAR of chromosome 2 genomic contig; 22834991..22835295

<400> 137
 aatataaaat atatgatata taatacgtat tatatatgta taatacgtat tatatatata 60
 tatataatat ataatacata ttatatatgt atataatata tactaatata tataatgtat 120
 acattatata ttacataat atataatata taatatagaa ttataattat atataatata 180
 taatatataa ttatatatat tattatatat gtatttatat tatatatat atattatata 240
 taatatatat tatataatta tataagtata taattatgtt atatacataa taatatataa 300
 tatat 305

<210> 138
 <211> 352
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(352)
 <223> MAR of chromosome 2 genomic contig; 25277762..25278113

<400> 138
 taatatatat aatatattat atattatata taatatattt tataatatat aaaatatatt 60
 atatataata tataatatat ttatatatat atataatata ttatatataa tatataatat 120
 attttataat atatataata tattatatat attatatatt tatatttatt tatatatattca 180
 taaatatata ttatatata atatatttta taatatatta tatataatat ataatatatt 240
 ttataatata ttataatata taatatataa tatattttat aatatatata atatataata 300
 tattatatat ttatatattt ttatatattc ataaatatat atatttatat ta 352

<210> 139
 <211> 342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(342)
 <223> MAR of chromosome 2 genomic contig; 25378452..25378793

<400> 139
 tatgtacata tatattttat atattatata taatatatat tatatgatat atataatata 60

3024-119-SEQ.ST25

ttatataata taatatataa aatatatata atatatatta tattaataa attatattat	120
atatatcata taatatattt tatatattat ataatatata ttatattata tatattttat	180
atattatatt atatatata tatatcatat aatatatatt atattatata ttttatatat	240
tatataatat atattatata tttttatata ttatataata tatattatat attttatata	300
ttatataata catatattat atataatata atatatatta ta	342

<210> 140
 <211> 663
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(663)
 <223> MAR of chromosome 2 genomic contig; 30209437..30210099

<400> 140	
aatatatatt acatattgta tatatagtat atgtaatgta tataatatag tatattctat	60
attgtataat agtaatatat agtatatgat atactatata ttacttatca tatatacaat	120
atatattata tcgtatattg tatattatat attgtatata tgtaatatat gatatgtaca	180
tatgttatat atgtatataa tatactatat tatatattgt atattatata catatataac	240
actattatac aatatataat atagcatatt atatacaata tagcatatac aatatataat	300
atagcatatt atataataa tagtatatta tatacaatat ataatatagc atattatata	360
taatataata tagtatatta tatacaatat ataatatagc atatacaata tagtatacaa	420
tatataatat agcatataca atatagtata ttatatataa tatataatat agcatgtaca	480
atatagtatg ttatatacaa tatataatat agcatataca atatagtata ttatatacaa	540
tatataatat agcatataca atatatata ttatatacaa tatataatat agcatataca	600
atatagtata ttatatacaa tatataatac agcatataca atatagtata ttacatacag	660
tat	663

<210> 141
 <211> 1200
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1200)
 <223> MAR of chromosome 2 genomic contig; 31725089..31726288

<400> 141	
tgtacttata tattataatg tatatatataa gtatatactt tatatatact tatatattat	60

3024-119-SEQ.ST25

aatgtatatt attgtatata agtatatatc ataatatata cttacatatg ctcacatata	120
ttataatgta tattgtatat attatataca tattatatat gtataatgta tatatacatt	180
atatatgtat aatgtatata tacattatat atgtataatg tatatatata ttatatatgt	240
ataatgtata taatatatac aatatatgta taatatataa tatatacaat atatgtataa	300
tatacaatat atgtataata tacaatatat gtatagtata taatatatat tatatatgta	360
tagtatatta tatattatat atgtatagta tataatatgt ataatgtata tattataata	420
tattatatat aatatctata acaatataat atattgtata tattatatat aatatatatt	480
tatataatat atattatata taatatatta tgtattttatt tatattatat ataatatataa	540
tatatataat ataaataata tttattatat attaatataa atatttatat taatatatat	600
ttattatata taaataatat ctatgatata aataatatat aatatacatg tatatgttat	660
aatatataca tataatatac atgtgtatat atactataca tgtatatata acatgtatat	720
atatacatgt atatatatta tgtatacatg tatagtatat atacatgtat atatatacat	780
atatactata catgtatata tacatgtata tatatacata tatactatac atgtatatat	840
acatgtatat atacacatat atactataca tgtatatata catgtatata tatacatgta	900
tgttatatac attattataa tatacatata tagtatacat tatatacatt atataaatatg	960
cattattata atataatata cattattata atatacatta ttataatata atatacatta	1020
ttataatata cattattata atatacatta taataatata cattattata atatacatta	1080
taatattgaa gtatatatac tataatatat gtatatatta taatgtatat aatatacatt	1140
attatatata agtatgtatt atatataagt atatattata atatatgtat atacatatat	1200

<210> 142
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(325)
 <223> MAR of chromosome 2 genomic contig; 32147252..32147576

<400> 142	
aaatacaaat atttatttat atataatata taatataata tttttattta tatataatat	60
ataatttata attatataaa tatataatat atttatatat aatatataat tttattatat	120
attaattata tatataataa atatataata tatataattt tattatatat taatttatata	180
tataataaat atatataata tataataata ttatatacat tatatatataa tataaatatt	240
tatataatat ataataaat atattttattt atatataaat atataatata taatttatata	300
aatatataat atatttatat ataac	325

3024-119-SEQ.ST25

<210> 143
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(507)
 <223> MAR of chromosome 2 genomic contig; 32312662..32313168

<400> 143
 attattttata taaatattat atttatatta tttatataaa tattatattt atattattta 60
 tataaatatt atattttatat tttttatata aatattatat ttatattatt tatataaata 120
 ttatattttat attattttata taaatattat atttatatta tttatataaa tattatattt 180
 atattattta tataaatatt atattttatat tttttatata aatattatat ttatattatt 240
 tatataaata ttatattttat attattttata taaatattta tttatattat ttatataaat 300
 attatattta tattattttat ataaatattt atttatatta tttatataaa tttttattta 360
 tttttatata aataatatat aaataaatat ttttatatgta tataaatatt atttatatta 420
 tttattttaaa taaataatat aaattaatat aaatattaat attattttatt ttattataaa 480
 taatataaat attatattta tttttat 507

<210> 144
 <211> 339
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(339)
 <223> MAR of chromosome 2 genomic contig; 33651118..33651456

<400> 144
 aaatataata tattattttat atataatata aatgatatat tatgtatata taaaatataa 60
 ataatatatt atgtatatat aaaatataaa tattattttat atataaaaata taaataatat 120
 ttatatataa aatataaata ttatattatt tatatataaa atataaataa tatattattt 180
 atatataaaa tataaataat atattattta tatataaata atatataaaa tataaatata 240
 tattatatat aaataaaaata tatatattat atatataaat ttatatataa tatataaaat 300
 ataatatata tttttaatat ttattatata atatataat 339

<210> 145
 <211> 461
 <212> DNA
 <213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(461)
 <223> MAR of chromosome 2 genomic contig; 45073053..45073513

<400> 145
 tgtgtataca tatatacgtg tacatatata tatatacatg tgtatatata tacgtgtaca 60
 tatacatata tacatgtgta tatatatgta catatacata tatacatgtg tatacatata 120
 tatatacatg tacatatata tatatacatg tgtatacata catatatata tgtacatata 180
 catatatata tgtgtatact tacatatata catgtacata tacatatata catgtgtata 240
 tatacatata tacacgtaca tatacatata tacatgtaca tatatacatg tatacatata 300
 tacatgtaca tatgtacata tatacatgta tacatatata catgtacata tgtacatata 360
 tacatgtata catatatata tgtacatatg tacatatata catgtatata tatatacata 420
 tgtacatacg cacagataga catatatata tatgtacata c 461

<210> 146
 <211> 1162
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1162)
 <223> MAR of chromosome 2 genomic contig; 45487691..45488852

<400> 146
 attatattat ctatataaat ctattatatc tattatatta tctatataat atctattata 60
 tatattatat tatctatata aatctattat atatattata ttatctatat aaatctatta 120
 tatatattat attatctata tatctattat atattatatt atattatatt atatataata 180
 tctattatat atattatatt atattatatt atatataata tctattatat atattatatt 240
 atctatataa tatctattat atattatata ttatattata tataatatct attatatata 300
 ttatattata ttatatataa tatctattat atctattata tatattatat atatctatta 360
 tatctattat atatattata tataatatct attatatcta ttatatatat tatatataat 420
 atctattata tctattatat tatattatat ataatatcta ttatatctat tatatatatt 480
 atatatatct attatatcta ttatatatat tatatataat atctattata tctattatat 540
 atattatata taatatctat tatatctatt atatattata tatataatat ctattatatc 600
 tattatatat tatatatata atatctatta tatctattat atctattata tatatatcta 660
 ttatatctat tatatatatt atatacataa tatctattat atctattata tatattatat 720
 atataatatc tattatatct attatatata tactatctat tatatctatt atatatatta 780
 tatatgtact atctattata tctattatat ctattatata tataatatct attatatcta 840

3024-119-SEQ.ST25

ttatatatat tatatatata ctatctatta tatctattat atatattata tatatactat	900
ctattatata tctattatat atattatatt atattatata tagtatctat tacatatatt	960
atattatatt atatataata tctattatat atattatatt atattataaa taatatatat	1020
aatatctggt atatataata gatattatat ataatatata atatatataa tagatattat	1080
atatattata ttatataata tataatatat aatataatta atataaaata tatataatat	1140
ataattaata taatatgtaa ta	1162

<210> 147
 <211> 562
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(562)
 <223> MAR of chromosome 2 genomic contig; 45516233..45516794

<400> 147 acatattata tatattatat ataatatata ttatatatac atattatata tattatatat	60
aatatatatt atatatacat attatatata ttatatatac atatatatat tgtatataat	120
atatacatat tatatatatt atatatacat attatatatt atatataata tatacatatt	180
atatattata tataaatatt atatattata tataaatatt atatatatata atattatata	240
ttatatataa atattatata tcttatatat aatataata tataatatat ataattttta	300
tatattatat ataaatatta tatatattat ataattattat atataatata taaatatata	360
tattatatata atattgtata tattatatata atattatata tattatatat aaatattata	420
tatattatat aaatatatat aaatatataa aatatataaa tatgtaaaat ttatatttat	480
aaatatataa tataaatata taaatatata tataaattat atataatata taatatatta	540
tacataatat atactatata ta	562

<210> 148
 <211> 801
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(801)
 <223> MAR of chromosome 2 genomic contig; 45727251..45728051

<400> 148 atatatatat ataatatata catatataga atatatatat tatttatattc tatatataga	60
atatatatat agaatatata tatatagaat atatatatag aatatatata tagaatatat	120
atatagaata tatatataga atatatatat atagaatata tatatagaat atatatatat	180

3024-119-SEQ.ST25

agaatatata tatatagaat atatatatat agaatatata tatatagaat atatatatag	240
aatatatata tagaatatat atatatagaa tatatatata gaatatatat atatagaata	300
tatatataga atatatatat atagaatata tatatagaat atatatatat agaatatata	360
tatagaatat atatatatag aatatatata tagaatatat atatatagaa tatatatata	420
gaatatatat atatagaata tatatataga atatatatat atagaatata tatatagaat	480
atatatatat agaatatata tatagaatat atatatatag aatatatata tagaatatat	540
atatatagaa tatatatata gaatatatat atatagaata tatatataga atatatatat	600
atagaatata tatatagaat atatatatat agtatatata gaatatatat atatatgata	660
tatagaatat atatatatag aatatatata tagaatatat atatatagaa tatatatata	720
gaatatatat atatagaata tatatataga atatatatat atatagaata tatatataga	780
atatatatat atatatagaa t	801

<210> 149
 <211> 346
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(346)
 <223> MAR of chromosome 2 genomic contig; 50937238..50937583

<400> 149	
taaaattata tatattatat ataatatata atatattata tataatatat attataaat	60
atataatata tattatataa aatatattct atagaatata tattctatta tataatatat	120
attctattat aatatatatt atatataata tatatttctat tataatatat attatatata	180
atatatttcta ttatgatata tatttatatat aataacatat attatatata atatatattc	240
tattatataa aatatatatt atataaaata tatatttctat tatataaaat atatattata	300
taaaatatat attatattat ataaaatata tattatacta tatata	346

<210> 150
 <211> 462
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(462)
 <223> MAR of chromosome 2 genomic contig; 55672627..55673088

<400> 150	
taaatatata ttatatatta tatttatatat aatatattta tatttatata tactataatt	60

3024-119-SEQ.ST25

tatatataat atatattata tatataatat atttataata tatatcatat aaataatata	120
tatttataat atatatcata taaataatat atattttataa tagatatcat ataaataata	180
tatatattata atagatatca tataaataat atatattttat aatagatatc atataaataa	240
tatatattta taatagatat catataaata atatatatatt ataatatata tcatataaat	300
aatatatatt tataatatat atcatataaa taatatatat ttataatata tatcatataa	360
ataatatata tttataatag atatcatata aataatatat atttataata gatatcatat	420
aaataatata tattttataat agatatcata taaataatat at	462

<210> 151
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(401)
 <223> MAR of chromosome 2 genomic contig; 56081352..56081752

<400> 151	
tatacatgta tgtattcgta tatgtatggt atatatgtat atgtggtata tacatatata	60
tatatacatg tatatgtggt atatacatat acatatatac atgtatatgt gttatatata	120
tatacatata tacatgtata tgtgtttatat acatatatat atatacatgt atatgtgtta	180
tatacatgtg tatgtgtata tgtatatata catatatgtg tatgtgcatg tgtatatata	240
catatatgta tatgtgtata tgtatatata catatatgta tatgtgtatg tgtatacgta	300
tatatacata tatgtgtatg tgtatgtgta tacgtatata tatacatata tgtgtatgtg	360
tatacgta tatacatata tgtgtatgtg tatacgta t	401

<210> 152
 <211> 765
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(765)
 <223> MAR of chromosome 2 genomic contig; 56404208..56404972

<400> 152	
tatattatat aaagaatata tattatataa tatgtaaaga atatatatata tataatatgt	60
aaagaatata tattatatat tatgtaaaga atatatatata tatataatat ataaagaata	120
tatattatat aatatataaa gaatatatat tatatattat ataaagaata tatattatat	180
ataatatata aagaatatat aatatataat atataaagaa tatatattat atataatata	240
taaagaatat atattatata taatatataa agaatatata ttatatatta tataaagaat	300

3024-119-SEQ.ST25

acatatatat aatatataaa gaatatatat tatatataat atataaagaa tatatattat	360
atataatata taaagaatat atattatata taatatataa agaatatata ttatatataa	420
tatataaaga atatatatta tatataatat ataaagaata tatattatat atattatata	480
aagaatatta tatattatat aaagaatata tattatatat aatatataaa gaataaacat	540
atatactata tataaagaat atacattata tatactatat ataaagaata tacattatat	600
atactatata taaagaatat atataatata taaagaatat acattatata taatatataa	660
agaatatatt atatattata taaagaatac attataatat aaagaatata ttatatataa	720
tataaagaat acattataat atataaagaa tatatataat atata	765

<210> 153
 <211> 443
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(443)
 <223> MAR of chromosome 2 genomic contig; 61953416..61953858

<400> 153	
tttatattat atagataaaa ttatattata ttacatgtaa tatataatat gtaaaatata	60
ttatattaca tatataatat ataatatgta aaatatatta tattacatat ataatatata	120
atatgtaaaa tatattatat tacatatata atataaaata ttacatatata tatattttac	180
ataaatatat attatctatt acatatttat tatatgtaat aatatgtaca tatgtataaa	240
tatgtatata ttatatacata tgtatatatt atatatacat atatatgtat atattatata	300
tacatatata tgtatatatt atattatata tacatatata tgtatatatt atattatata	360
tacatatata tgtatatatt atattatata tacatatata tgtatatata ttataaatat	420
gtataataaa gatttatatg taa	443

<210> 154
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(372)
 <223> MAR of chromosome 2 genomic contig; 62076211..62076582

<400> 154	
tatatataat tatatatgta attatatatc agtatatata attatatata attatcaata	60
tatataatta tatataatta tcaatatata taattatcaa tagatatata taattatata	120

3024-119-SEQ.ST25

tataattata tataattata tatcagtata tataacttata taattatata tatgtatata	180
taattatatg tataaattat ctataagtat atataactat aatatatatc aattatatat	240
acttatgtat aattatatat actgatatat aattatacat aattatatat atcaattata	300
tataattatg tataattata tatacatata tataattata tatataaatt atatgtaatt	360
atataattac ac	372

<210> 155
 <211> 484
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(484)
 <223> MAR of chromosome 2 genomic contig; 62158581..62159064

<400> 155	
attatatata atataaaaaat tatacatatt attttattat atattatata cataatatat	60
atatttcata tataatatat attatatata atataaaata tatattatgt ataattatat	120
ataaaatata ttatataatt atatataaca taaaatatat ataatatata attatatata	180
atataaaata tatatatata ataaaaatata tattatatgt aattatatat aatataaaat	240
atatatatata tataaaaatata atattatata taattataat ataaaaatata tattatatag	300
tatatattat ataaaaatata tattatatata aattatatat tatataaaat atatattata	360
tataattata taatataaaa tatatatattgt atataattat atataatata aaatatatat	420
aatatatgaa ataagatata tactatatat aatatatata atttacetat aagatatata	480
tcat	484

<210> 156
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(644)
 <223> MAR of chromosome 2 genomic contig; 68145036..68145679

<400> 156	
tatatatatg ctaatatatg taatatatat tatatatatg ctaatatata tatgctaata	60
tataatatat attatatata aatatataat atatatttat ataaatatat aatatattat	120
atataaatat ataatatata tatatatata atatactata ttatatatta tgtataacat	180
ataatacata ttgtttatat ataatatata tattatatgt tatatatatt atattatata	240
taatataaca atatatttta tatattatat gttatatatt atatattata tataatataa	300

3024-119-SEQ.ST25

cataatatat aatatatatt atattatata ttacatatat tagcaatatt atatataaaa	360
tatatataat atatataaaa tatatataaa aatataaaat atatatcaaa atataaacta	420
tataatatat aaaaatatat tatatataat atataaaaat ataaactata taatatataa	480
aaatatatta tatataatat ataaaaatat attatatatt atatataaaa atatattata	540
tataatatat aaaaatatat ataaaaatata aaaaatatat ataaaaatata aaaaatatat	600
aaaataatat aaaaatatata atatataata atataatata taat	644

<210> 157
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(530)
 <223> MAR of chromosome 2 genomic contig; 71257289..71257818

<400> 157 atatctatta tatttatata ctttatataa attatatcta ttatatattat atactttata	60
taaattatat ctattatatt tatatacttt atataaatta tatctattat atttatatac	120
tttatataaa ttatatctat tatattttata tacttttatat aaattatatc tatttatattt	180
atatacttta tataaatata taatttatatt tatatacttt atataaatat aattataaat	240
atattttatat acttttatata aatataatta taaatatatt tatatacttt atataaatat	300
aattataaat atattttatat acttttatata aatataatta taaatatatt tatatacttt	360
ataattatat gttatattta taatttatatt tatataattc ataattatat acattatggt	420
tatagttata taattttataa ttatatacat tatattttata tttatataat ttataattat	480
ataaattata taaatttatat aaattatctt taattttatat tatataatct	530

<210> 158
 <211> 337
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(337)
 <223> MAR of chromosome 2 genomic contig; 73413615..73413951

<400> 158 acttatatta tatataacta tattattgta tattaatata aattaatgat atataatata	60
ttaattatat attattatat gtgatataaa atacttatat ttatactgta tatatgtata	120
tacacacata tatgtatata tgtatatata cacatatgta tatatgtata tgtatatatg	180

3024-119-SEQ.ST25

tatactgtat atatgtatat acacacatat atgtatatat gtatatgtat atatgtatac	240
tgtatatatg tatatacata tatacatata tgatatatat cacatatatg tgatatataa	300
atatatttat ataaatataa tattaatatt tatatta	337

<210> 159
 <211> 1340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1340)
 <223> MAR of chromosome 2 genomic contig; 77011049..77012388

<400> 159 atgtatttta tatagtatat attatgtatt atattgatat aattatataa caattattta	60
tatataaaat aacaaataaa tatataaaat aataaatata tatttattat taaataataa	120
atatatattt attattaaat aataaatata taaagtaata aatatatatt tatatattaa	180
ataattcata tatattttata tattaataaa ttcatatata tttaaataat taatacatat	240
ttaaataatt aatatatatt tatataatat atattttatat attaaataat taatatatat	300
ttatagatta aattaatata tttttatata tttaaataaa tttaatatat tatatattta	360
tataatttaa atttaataat ttatataaatt taattttaatt taatataatt aaaatatatt	420
aaacattata taatatataa tatattttaat atataatata tatttaatat ataatatatt	480
taatataata tatattttaat atataatata tatttaatat ataatatatt taatatataa	540
tatattttaat atataatata tatttaatat ataatatatt taatatataa tatatattta	600
atatataata tatttaatat ataatatata tttaatatat aatatattta atatataata	660
tatattttaat gtataatata tttaatatat aatatatatt taatgtataa tatattttaat	720
atataatata tatttgatgt ataatatatt taatatatat ttgatgtata atatatttaa	780
tatataatat atatttgatg tataatatat ttaatataa atatatattt gatgtataat	840
atattttaata tataatatat atttgatgta taatatattt aatatataat atatatttga	900
tgataatat atttaatat taatatatat ttgatgtata atatatttaa tatataatat	960
atatttgatg tataatatat ttaatataa atatatattt gatgtataat atattttaata	1020
tataatatat atttgatata taatatattt aatatataat atatatttga tatatattta	1080
atatataata tatatttgat atataatata tttaatatat aatatatatt tgatatataa	1140
tatattttaat atataatata tatttgatat ataatatatt taatatataa tatatatttg	1200
atatataata tatttaatat ataatatata ttgatatat aatatattta atatataata	1260
tatatttgat atataatata ttttcttatt aattatttat atataatata taaatatata	1320

ttaattaatt atatattaaa

1340

<210> 160
 <211> 937
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(937)
 <223> MAR of chromosome 2 genomic contig; 78226855..78227791

<400> 160
 tgtgtatata tacatatatg tgtatctatg tgtatatata catatgtgta tatatacata 60
 tatgtgtata tatacatatg tgtatatatg tgtatatatg tgtatatata catatatgtg 120
 tatatatgtg tatatatgtg tatatataca tatatgtgta tatatgtgta tatatacata 180
 tgtgtatata tgtgtatata tacatatatg tgtatatatg tgtatatata catatatgtg 240
 tatatatgtg tatatataca tatatgtgta tatatgtgta tatatgtgta tatatacata 300
 tatgtgtata tatgtgtata tatacatata tgtgtatata tgtgtatata tacatatatg 360
 tgtatatatg tgtatatgtg tgtatatata catatatgtg tatatacaca catatatgtg 420
 tatatatgtg tatatataca tatatgtata tatacatata tgtgtatata tgtgtatata 480
 tacatatatg tgtatatatg tgtatatata catatatgtg tatacataca tatatgtgta 540
 tatatgtgta tatatacata tatgtgtata catacatata tgtgtatata tgtgtatata 600
 tacatatatg tgtatacata catatatgtg tgtatatgtg tatacataca tatatgtgtg 660
 tatatatgtg tatacatatg tgtgtatatg tgtatatata catatatgtg tgtatatatg 720
 tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg 780
 tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg 840
 tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg 900
 tgtatatata catatatgtg tgtatatatg tgtatat 937

<210> 161
 <211> 1350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1350)
 <223> MAR of chromosome 2 genomic contig; 79287748..79289097

<400> 161
 tatatatatt atatatatag taactgttct attatatata tattatatat atttctgttc 60
 tattatatat tatatatatt atattatata ttatatgtaa tatattatat atattataag 120

3024-119-SEQ.ST25

taatata	tatatatt	atgtaata	ttatatata	tatatgta	atattatata	180
tattatatgc	aatatgtt	atatattata	tgcaatatgt	tatatatatt	atatgcaata	240
tattatatat	attatatgca	atatattata	tataatatat	gtaatatatt	atattatata	300
ttatatgtaa	tatcttatat	attatatgta	atatattata	tatattatat	gtaatatctt	360
atatatatta	tatgtaatat	attatatatt	atatgtaata	tattatctta	tatatattat	420
atgtaata	ttatattata	tattatatgt	aatatatatt	atatgtaata	tattacatat	480
tatatgta	atatattata	tgtaatatat	tacatatatt	atgtaata	tattatatgt	540
aatatattac	atattatatg	taatata	catattatat	gtaatatatt	atatgtatta	600
tatgtaatat	attatatgta	ttatatgtaa	tatattatat	gtattatatg	tattatatgt	660
aatatattat	atgtattata	tgtaatatat	tatatattat	atgtaattat	attatatgta	720
atatattata	ttatatatta	tatatattat	atgtaata	ttatattata	tattatatat	780
attatatgta	atatattata	ttatatatta	tatatattat	atgtaata	ttatattata	840
tattatatat	attatatgta	atatattata	ttatatatta	tatatattat	atgtaata	900
ttatattata	tattatatat	attatatgta	atatattata	ttatatatta	tatatattat	960
atgtaata	ttatattata	tattatatat	attatatgta	atatattata	ttatatatta	1020
tatatattat	atgtaata	ttatattata	tattatatat	attatatgta	atatattata	1080
ttatatatta	tatatattat	atgtaata	ttatattata	tattatatat	attatatgta	1140
atatattata	ttatatatta	tatatattat	atgtaata	tttatatta	tatatattat	1200
attatatatt	atatgtaata	tattatatta	tttattatat	attatatatt	atatgtaata	1260
tattatatta	tttattatat	atattatatt	atttattata	tataatatat	tatattatat	1320
atattatatt	atatatattt	ctgttcta				1350

<210> 162
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_difference
 <222> (1)..(332)
 <223> MAR of chromosome 2 genomic contig; 81142998..81143329

<400> 162	
ctatgtatat	aactatatat aactattata taacttaata agatatataa ctattatata 60
acttaataag	ttatatataa ctattatata taacttaata agttatatat aactattata 120
taacttaata	agttatatat aactattata taacttatta agttatatat aactatatat 180
aacttaataa	gttatatata actattatat aacttaataa gttatatata actattatat 240

3024-119-SEQ.ST25

aacttaataa gttatatata actattatat aacttaataa gttatatata actatatata 300
acttatatac aacttattaa gctatatata ta 332

<210> 163
<211> 327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(327)
<223> MAR of chromosome 2 genomic contig; 84019536..84019862

<400> 163
actgacagta tacatactgt atatatatac agtatgtata catatacagt atgtatacta 60
tatacagtat gtatactgta tatatatata cagtatgtat actgtatatata tatacagtat 120
gtatacgtat gtatactgta tatatgtatt atagtgtata tatgtattat agtgtatatata 180
tgtattatat atattatagt gtatgtatta tatgtgtata tacatataat atattataca 240
tatacatatg cacaatatgt atatgtatta tatgtattca tatacatata tgtatatgta 300
taatatatgt atacatataa tacacat 327

<210> 164
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(407)
<223> MAR of chromosome 2 genomic contig; 1448030..1448436

<400> 164
tatataatat atattacata tatattatat ctatattatt tatattacat atgtaatata 60
tattatattt atattattta tataatatat tatatatatt atattattta tatgtaatat 120
atttatattg tttatatata ttatatttat attatttata tataatacat attatattta 180
tattatttat atataatata tataataaat atataatata tataaaaata tatatattta 240
atatatctat aatatatatt atatatatta tatataatat atataattgt acatatattt 300
attatatata ttatatatat aatatatatt ataaatataa tatataaata tatttataaa 360
tatatataaa tatttatattt atacattata tttatatata tattata 407

<210> 165
<211> 1959
<212> DNA
<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1959)

<223> MAR of chromosome 2 genomic contig; 2117630..2119588

<400> 165

tatacatggt atagtgtata tagtatacta atatataatg tatgtatgtg tatacatata	60
cacatataat atacacatat ataatatata tagtatataa taatgtataa tatataatat	120
ataatatata atgtatagta tactacatat ttatatatag tatatagtat gcatagtaca	180
tatatactat atatgtagta tactatagtg tatatatagt acaccatata tagtataaat	240
atactatata gtatatgtac tatatatata ctatatagta tatacagtat acatatatag	300
tataacctata ctatatagta tatatagtggt gcgtatacta tatagtatat atagtgtgctg	360
tatactatat agtatatata gtgtgctgtat actatatagt atatatagtg tgcgtatact	420
atatagtata tatagtgtgc gtatactata tagtatatat agtatacata tatagtgtgc	480
gtatactata tagtatatat agtatacata tatagtatgc gtatactata tatagtatac	540
atatatagta tatctagagt atatgtagta tgtatagtat atatagtcta catactgtat	600
atacagtata tatatactct atagtatact atacagtata gtatactata tagtatacaa	660
tatatgtata ctatagaaac acactatata tagtatacta tatatactat atactatata	720
ctatatatag tatactatat atactacata ctatatatag tgtatgtata gtatatataa	780
actatatata gtgtatatag tatatatatt atatataata tatattatat tatattatac	840
tatatattat atgtatatta tagtatatta tactattata tattatatat tatattatat	900
attatataat ataataat tatatattat aaaatatata tttttatatt atatattttt	960
aaatatttta taatatatat ttataatat atatattata attattttat atataatata	1020
aaatataata aatattttat aatatatatt tttaaaatat aatattttata tattataaaa	1080
atataaatat ataatatatt atatattata tatagtataa tatataatat gttatatagt	1140
atcttatact attatactat atatattata tagtgtatat atagtatact atatatagtg	1200
tatatagtggt atactatagt gtatatagtg tatactatag tgtatatagt gtatactata	1260
tacactgtat atagtatgt atactatata cactgtatat agtagtgtat actatataca	1320
ctgtatatag tagtgtatac tatatacact gtatatagta gtgtatacta tatacactgt	1380
atatagtagt gtatactata tacactgtat atagtatgt atactatata cactgtatat	1440
agtagtgtat actatataca ctgtatatag tagtgtatac tatatacact gtatatagta	1500
gtgtatacta tatacactgt atatatagta tattatatat actatatatg tatatatagt	1560
atacatatat attatatata cagtatatat agtatatata ctatgtagta tatatagtat	1620
atatactata tagtatgtat agtatactat atagtatata tagtatatta tatagtatat	1680

3024-119-SEQ.ST25

atactatata gtatatatag tatattgtat ataatgtata tatactatat agtatatata	1740
gtatattgta tatatagtagt attgtatata tagtatacat agtatgtata tatagtagtat	1800
atagatatata tatatagtagt gtacacagta tatatagtagt atatgtatac tacatatagtagt	1860
atacatgtat actatactac ataatgtata catgtatact atactacata tagtatacat	1920
gtatagtagta ctacatatata tatacatgtata tagaatact	1959

<210> 166
 <211> 520
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(520)
 <223> MAR of chromosome 2 genomic contig; 2119984..2120503

<400> 166	
tatgtatgca tcgtatacat ataatgtata tatatgtatg catcgtatac atatatatacag	60
tatatatagtagt atgcatcgta tacatacagtagt atactatata tacagtagtat acagtagtagt	120
atatatacag tatatacagtagt atactatata tacagtagtat acagtagtagt gtatatatacag	180
tatatatacagtagt atatatagtagt tactatatata acagtagtagt tactatgtat tctatatata	240
gtatagtagtagt catagtagtagt ataatgtata cactataccta tatatagtagt actatatata	300
ctctatatag tatatatagtagt atactatata tagtagtatata gtataccta tatagttagtagt	360
atatataccta tatatatagtagt atatatatac tatatatagtagt atatatatac actatatatt	420
gtatagtagtagt gtgtatatata agtagtagtagt atgtatatata acacatgtat acatgtatat	480
atgtataccta atatatatac atatatgtat aaatatata	520

<210> 167
 <211> 954
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(954)
 <223> MAR of chromosome 2 genomic contig; 2578285..2579238

<400> 167	
tattatatata aactttataa tatataaatat atattatatata taactttata atatatataa	60
tatattatatata ataactttat aatatataaat atattatatata tataacttta taatatataa	120
tatatattat atataacttt ataatatata atatatatta tatataactt tataatatata	180
aatatatatt atatatatac ttataaatata taatatatatata tatatatatac tttataaatat	240
ataatatata ttatatataa ctttataata tataatatata attatatata actttataat	300

3024-119-SEQ.ST25

atataatata tatttatatat aactttataa tatataatat atatttatata taactttata	360
atatataata tatatttatat actatatata atatataact ttataatata taatatatat	420
tatatactat atataacttt ataatatata atatataatta tatatttatat ataactttat	480
aatatataat atatattata tataacttta taatatataa tgtatattat atatttatata	540
ttatatatta tatataactt tataatatat aatgtatatt atatattata tataacttta	600
taatataata tatataatat aatatataac ttataatat atatatcata tatttatatat	660
aactttataa tatatatcat atatttatata taactataat atatatatca tatatttatat	720
ataactataa tatatatatc atatattata tataacttta taatatatat atcatatatt	780
atatataact ttataatata tatcatatat tatatataac ttataatat atatatata	840
ttatatataa ctttataata tatatttatat ataactttat aatatatatc atatattata	900
tataacttta taatatatat catatattat atataacttt ataatatata tcat	954

<210> 168
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(452)
 <223> MAR of chromosome 2 genomic contig; 3836217..3836668

<400> 168	
tttatatata aatatatatc ttatatatat ttatatataa tacatatata tcttatatat	60
ataaaatata tatacatatt tatatataaa atacatatgt attatataca tttatatata	120
atacatatgt attatataca attatataat acatatgtat tatatacaat tatataatac	180
atatttataa atatatatat ttatatattat atatattttat atataaataa atatatattt	240
atagattttat ttatatataat atatattttat ataaatatat atttatatat atttatataa	300
atatatatatt atatatattt ctatatatat atataaatat atgtataaat atatatattt	360
atacatatat tcatataaat atatatattt atacatgtat ttatatgaat atatatattt	420
acatgtaatt atatgaatat atatttatac at	452

<210> 169
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(417)
 <223> MAR of chromosome 2 genomic contig; 3837666..3838082

3024-119-SEQ.ST25

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<400> 169
gatatatata tttatatataa tatatatata aagagatata tttatatatt tttttatata    60
aatatatattc tttatatataa gatatatgta aatatattta tttatatataa tatattttata  120
tatgtaaata tatattttata tttttatata tttatatatt tttttatata aatatatata    180
ttttatatatt tttttatata tataaaaaata tataaatata aatatatata aatatatata    240
attataaata tagaaataaa tataaatata aatatataaa tatatatataa tataaatata    300
tataaatata aatatatata aatataaata tataaatgta taaatatata aatataaata    360
tatataaata tgtataaata tataaatata taaatatata aaaatatata taaatac      417

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<210> 170
<211> 1197
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(1197)
<223> MAR of chromosome 2 genomic contig; 6294846..6296042

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<400> 170
tatatactaa tatgtatata taaatatata aatatatata cacgtgtata tataaatata    60
tatgtatata taaatatata tacatatatg tatataaaaa tatatacgta tatacgatata  120
tacgtatata tagatatata cgtatatatg tatatacgta tatatagata tatacgatata    180
tacgtatata tagatatata cgtatatatg tatatacgta tacatgtgta tatacgatata    240
tacacatata cgtatacatg tgtatatatg tatatgtata cattatatat acgtatatat    300
acatatatgt atacatgtat atataaatat atacatatat gtatatatta tacatatatg    360
tatatatata atatatatta tatataatat atatattata tataatatat atattatata    420
taatatatat attatatata atatattata tattatatat aatatatata tatataatat    480
attatatatg tacatatgta cataatgtat atagtatat atataatata tatgcacatg    540
tatatatata atagtatat tatatatata tatgtatata tgtacatatt atatatgtat    600
atatgtacct attatatata catatgtata tatgtacctt ttatatatac atagtatat    660
atgtacatat tatatatata tatgtatata tgtacatatt atatatatat atgtatatat    720
gtgcatgcat atataatata taatatatta tagattataa tattatatac atatcatata    780
ttatatactt atatatatat gtatatatta tatacatatt atatattata tacatataat    840
atatgtatat aatatatata tatattatat attatatata atacattatg ttatatatta    900
tggtatataa tatatatatt ataatatata tatattatat ataatatata catatataat    960
aaataatata taattatata tataatatat gcatataaat atgtaatat ttttatatta  1020

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3024-119-SEQ.ST25

tatatgatca tatataatat gacatattat atatgattat atatatgata tattatatat	1080
gattatatat attatatata aatatatgat tatatataat catatatata aatatatgat	1140
tatatgatta tatataaata tatatatatg attatatgat tatatataat tgattat	1197

<210> 171
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(362)
 <223> MAR of chromosome 2 genomic contig; 6506971..6507332

<400> 171	
tatatatagt gtatactata tatacgctat atgcacacat aaactatata tacagtatat	60
aatatgcgta tactatatac acagtatata ctacatgtat actatatata gtatataaga	120
tatatactat gtatataata tatatactag gtatatatat ccatatatat actatatact	180
atagtatata catatatatg tacgtatata tgtatatgta catatatatg tagtatgtat	240
atatatacat atatacacac tatagtatat acatatatat actatatata ccctatatag	300
agtatattat atacagtata ctatatatac tatatatacc ctatatagag catgtctatg	360
ct	362

<210> 172
 <211> 2578
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(2578)
 <223> MAR of chromosome 2 genomic contig; 6507395..6509972

<400> 172	
ggtatactat atatactata gagtatactt tatagtatat atacctatat tatatatata	60
tacatacact gtatagtata tatggtatat atactatata tggcatatat agttttatata	120
tatactatat atggtatata tagttttatat atatactata tatggtatat atagttttata	180
tataccatat atggtatata tagttttatat agtacatata gtatatatac aactgtata	240
gtatatatta tgtagtatat atactatata tactgtatat atagtataaa tactatatat	300
agtatacact atatactata cactatatat actatatact atatactata tatagtatac	360
tatatagtat atagtatact ctatatgtac tatagagtat actatatata ctatacataa	420
aatatTTTTa tatatagtac agcgatact atatactata tatagtatac tctatatgta	480
ctatagagtg tagtatatac tatacagtat actctatata tactatacag tacactatat	540

3024-119-SEQ.ST25

atactatata	tagtatat	tatatatagt	acagtatata	cagtatatat	attatactat	600
atgtagtaca	tatatagttt	agtatatata	gtatatatac	tatactatat	gtactacata	660
tataatagta	tatatagtat	atatactata	ctatatgtag	tacatatata	gttttagtata	720
tatactagta	tatagatata	tagttatata	gatatataat	agtatatata	gtatatatag	780
catatatagt	atatatgcta	tatatactat	atagcatata	ctatatacta	tatatacagt	840
atatatagca	tatatagcat	atataatata	tatacttttg	atatacatac	tatatacagt	900
atatatagta	tatatactgt	ataaatatac	tatatatacc	gtatatgcac	actatatgct	960
atatatacta	tatacactat	atacagtata	tatagtacac	tatactatat	aaagtatata	1020
tagtatacag	tacactatac	tatatacatt	atatatagta	tatattatac	atagtatata	1080
gtatataaat	agtatatata	gtatatacag	tatatatata	gcatacttta	tatagtatac	1140
acagtatata	gatactatat	atgctatata	tagtatctat	atactgtata	ttatatatac	1200
taatatagta	tatatgtata	tatatactgt	atatataata	tatacatata	tagtatatat	1260
actatacata	cacactatac	atatgtatat	atactataca	tactatatac	tatatatcct	1320
atatatacta	tatagtatat	tatatatcct	atatatacta	tatagtatat	tatatatcct	1380
atatatacta	tatagtatat	tatatatact	atataccata	tatactatat	atactgtata	1440
gtatactata	tatactatat	agtatactgt	atatactata	tagtatactg	tatatactat	1500
atagtatact	gtatatacta	tatagtatac	tgtatatact	atatagtata	ctgtatatac	1560
tatatagtat	actgtatata	ctatatatac	tatatagtat	actgtatata	ctatatagta	1620
tactatatat	actatatacc	atatatacta	tgtatatact	atatatagta	tatactatgt	1680
atatgctata	tatagtatat	atagtatata	tgctatatat	agtatatata	gtatatatgc	1740
tatatataca	gtctatatat	agtatatata	ctatatagac	tatatatata	gcatatatac	1800
tatatatact	atatataata	tatatgggtat	atacatagta	tctatatgta	gtatctatat	1860
atagtaccta	tatatactat	atataggtac	tatatatagt	atatatactt	tatatagata	1920
ctatatatag	tatatatact	ttatatagta	tatatagtat	atgtagcata	tatagtatat	1980
atagtatata	tagtatatag	tatgtatagt	atatatagat	tatattgtat	atacagtata	2040
tatactgtat	atactatata	aatagtacat	acagtatata	cagtatatat	gtactatata	2100
tagtatatac	agtatataca	gtatatatgt	accatatata	gtatatacag	tatatacagt	2160
atatatgcac	tatatgttat	atacagtata	tacagtatat	atgtactata	taaatagaat	2220
atactctata	tacagtatat	atgtactata	taaatatata	cactatgtac	agtatatatg	2280
tactatataa	atagtatata	cactatatac	agtatatatg	tactatatag	tgtatacagt	2340
atatacagta	tatagggtact	atatatggta	tatacagtat	atatgcacta	tatgggtatat	2400

3024-119-SEQ.ST25

acagtatata tgcactatat atggtatata cagtatatat gtactatata tggatatatac 2460
 agtatatatg tactatatat ggtatatata gtatatatgt actatatatg gtatatatacag 2520
 ttatatacagt atatatgcac tatatatggt atatacagta tacatgtact atatatgg 2578

<210> 173
 <211> 598
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(598)
 <223> MAR of chromosome 2 genomic contig; 7770400..7770997

<400> 173
 gtgtattgta tatacatata cgtatctacg tatatacata tatgtattgt atatacatat 60
 atgtattgta tatacatata tgtatatacg tatatacata tatgtattgt atatacatat 120
 atgtatatatac gtatatatacat atatgtatat acgtatatag atatacatat atatgtattg 180
 tatatacata tatgtatata catatataca tatatatgga tatacatata tatgtattgt 240
 atatacatat acaatatatg tatatataca tatacatata caatatatgt atatacatat 300
 atatgtattg tatatacata tatatgtatt gtatatatacat atattgatat acatatatgt 360
 atatatacat atatgcatat atgtatatat acatatatgc atatatgtat atatacatat 420
 atacatatgt acatatatac atatatacat atatgtatat atacatatat acatatgtac 480
 atatatacat atatacatat gtacatatat acatatatac atatgtacat atatacatat 540
 atagatatat atacacatat atagatatatac ttatatgtat atatacatac atacatat 598

<210> 174
 <211> 1048
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1048)
 <223> MAR of chromosome 2 genomic contig; 8332422..8333469

<400> 174
 cattatatat aatatataat atattattat atataatata tataacatta tatatagtat 60
 atatgacata tataacatat attatatata acatatataa aatataacat attatatata 120
 acatatataa aatataacat atattatata taacatatat aaaatataac atatattata 180
 tataacatgt ataaaatata acatatatta tatataacat gtataaaata taacatatat 240
 tatataacat gtataaacta taacatatat tatatatataa atatattata tgttatatat 300
 tataaaataa atatattata tgttatatat tataacatat tatataaata atatataata 360

3024-119-SEQ.ST25

tataacatat attatataaa taatatataa catatattat ataaataata tataacataa	420
catatattat ataacatata acatataaca tatatttatat ataacatata acatataaca	480
tatatttatat ataacatata acatataaca tatatttatat ataacatata acatatatta	540
tatttatatat aacatataac atatattata ttatatataa catataacat atatttatatt	600
atatataaca tataacatat atttatattat atataacata taacatatat tatatttatat	660
ataatatata acatatatat tatatataat atataacata taacatatat tatatataat	720
ataatatata acatatatta tatataatat aatatataac atatattata tataatataa	780
tatataacat atatttatata taatatataa tataacatat atttatatata atataatata	840
taacatatat tatatataat ataatatata acatatatta tatataatat aatatataac	900
atatattata tataatataa tatataacat atataatata taacatatag catatataat	960
atataacata taacatatat tatatataac atataacata tatttatatat aacatataac	1020
atatataata tgtaacatta tatataac	1048

<210> 175
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(375)
 <223> MAR of chromosome 2 genomic contig; 8909678..8910052

<400> 175	
tatatacaca tatatacgta tgaatatata tacacatata cgtatgaata tatataccca	60
tatacgtatg aatatacaca tatatatacg tacgtatata tatacacata tatacgtacg	120
tatatatata cacatatata cgtacgtata tatatacaca tatatacgta cgaatatata	180
tacacatata tacgtacgaa tatatataca catatatacg tacgaatata tatacacata	240
tatacgtacg aatatatata cacatatata cgtacgaata tatatacaca tatatacgta	300
cgaatatata tacacatata tacgtacgaa tatatataca catatatacg tacgaatata	360
tatacacata tatac	375

<210> 176
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(563)
 <223> MAR of chromosome 2 genomic contig; 10572503..10573065

3024-119-SEQ.ST25

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<400> 176
atttataata tatatgtata aatatatgta tatatttata tttaaatata tgtatatata    60
tttatattta aatatacgta tatatattta tatttaaata tacgtgtata tatttatatt    120
taaataacg  tgtatatatt tatattttaa tatacgtgta tatatttata tttaaatata    180
cgtgtatata tttatattta aatatacgtg tatatattta tatttaaata tacgtgtata    240
tatttatatt taaataacg  tgtatatatt tatattttaa tatacgtgta tatttatatt    300
taaataacg  tgtatattta tatttaaata tatgtatgta tttataaata tatattttaa    360
gtatatattt ataaatgtat acatgtatat ataaatatat atatttttaa tatatattta    420
tatatatatt tatatattta tataagtata tatatattta aatatatgta tatatttata    480
tatttatata agtatatata tttaaatata tgtatatatt tataatatat attttaaata    540
tatatttata tatttattat ata                                           563

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<210> 177
<211> 595
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(595)
<223> MAR of chromosome 2 genomic contig; 11609694..11610288

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<400> 177
tataaatact atatatagta tatataatat tatataact atatataaat atatgtagta    60
taaataatat ataatataga tatataatat aatataatat gttataaata taaatatatt    120
tatataattt aatttataat atataatata taatatataa ttttaatttta taatatataa    180
tatataattt aattttataa tatataatat ataatatgta aattatatat aatttaatat    240
atctaaatta tataatttaa atataaatat aatataaata tatctaact aatatacata    300
acataaatat atatagtata tatagtacat ataaatatat atagtacata tagtatatat    360
aaatatatag tatatataaa tatagtatat ataaatatat agtatatata tagtatatat    420
aaatatatag tatatataaa tatatatagt atatataaat aatatatagt atataaataa    480
tatatattat taaatataat aataatttat tatataact atatattatt atgtattata    540
ttatatatat tattttatat ttaatatata ttattttata tatttatattt aatat      595

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<210> 178
<211> 662
<212> DNA
<213> Homo sapiens

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<220>

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3024-119-SEQ.ST25

<221> misc_binding

<222> (1)..(662)

<223> MAR of chromosome 2 genomic contig; 12699804..12700465

<400> 178

gtatatatat atatatatat atggtgtata tatatatata tatatatggt gtatatatat	60
atatatatatat atggtgtata tatatatata tgggtgtatat atatatatgc tgtatatata	120
tatggtatat atatatggta tatatatatt tgctatatat atagcagatc tgctatatat	180
atatatttgc tatatatata gcagatctgc tatatatatt tgctatatat atgctatata	240
tatgctacat atatgctata tatatgctat atatatgcta tatatatgct atatatatgc	300
tatatatatg ctacatatat gctatatata tgctacatat atgctatata tatgctatat	360
atatatgcta tatatatgct atatatatat gctatatata tgctatatat atatgctata	420
tatatgctat atatatatgc tatatatatg ctatatatat gctatatata tagcatatat	480
atatagctat atatatgcta tatatatagc ttatatatat gctatatatg ctatatatat	540
gctatatata tagctatata tatgctatat atagctatat atatgctaca tatatgctat	600
atatatgccca tatgtatgct atatatatgc tatatatata tgctatatat atgctatata	660
ta	662

<210> 179

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(649)

<223> MAR of chromosome 2 genomic contig; 12821904..12822552

<400> 179

tatgtaatat tatatatata aattatatat tatacatatg taatattata tatatatataa	60
ttatatatta tacatatgta atattatata tatataaatt atatattata catatgtaat	120
attatatata tataaattat atattatata tatgtaatat tatatatata taaattatat	180
attatacata tgtattatat atataaatta tatattatac atatataata tatatatataa	240
ttatatatta tacatgtata atatatataa attatatatt atacatatat aatatatata	300
aattatatat tatacatata taatatatat aaattatata ttatacatat ataatatata	360
taaattatat attatacata tataatatat ataaattata tattatacat atataatata	420
tataaattat atattatata tatataatat atataaatta tatattatac atatataata	480
tatataaatt atatattata catatataat atatataaat tatatattat acatatataa	540
tatatataaa ttatatatta tacatatata atatatataa attatatatt atacatatat	600
aatatatata aattatatat tatacatata taatatatat aaattatat	649

3024-119-SEQ.ST25

<210> 180
 <211> 3191
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(3191)
 <223> MAR of chromosome 2 genomic contig; 15356889..15360079

<400> 180
 tacaattata tataactata aatataatat aatatatatt atctatatta catattaata 60
 tataatatat attacctatt aatatataat ataatatata taatatatat tacctattaa 120
 tatataatat aatatatata atatatatta cctattaata tataataaaa tatatataat 180
 atatattaca tattattata taatatatat tatataacat atataacata tactatatat 240
 tatataacat atataattgt atagtatta tatatattat atatacttat acataatata 300
 taaataatta aatatatggt ataaatataa caaatatata acatatataa catatataac 360
 atatatataa ttacataaaa tatataatac ataatatata ttatgcaaca tattatataa 420
 tatataacat ataattgata ttatattata tcatatataa tacataatat ataatatatg 480
 atataatata atatattata tatgatataa tataatatat tatatatggt ataatatat 540
 atatattata tataggatat attataacat attacatatg atataataaa ttttatctta 600
 tatataggat atattataat ataccacata tagcatatat taaaatatat tacatatagt 660
 atattatata tactatatgt atatatacat atagtatatt atagtatatt atacagtata 720
 tattatatat actatatata gtagtatata gtatatatta tatatactat atatagtagt 780
 atacagtata tattatacag tatatattat atacactata ttatatatta tgtataatat 840
 atactatata tagtatatta tgtagtatat attaaacata atagatatat agtatatact 900
 atagataata gatattatat agtatatagt atatattata tataatatat ataatatata 960
 ttatatatat atatgatata tgatatatta tatataatat atataatat taatatatgt 1020
 aatataatac atattatata taatatatgt aatatatat aatatataat atattgtaata 1080
 taataatatata tattatataa tataacatat ataaatataa taatatatat tatatgatat 1140
 aacatacata aatataataa catatataat atatattata tattatattg tatatatgat 1200
 atactatata ttacacatta tacattatct ataatatata attaatatat aacatatatt 1260
 agataacata taattatatc tgtaacatat ataagatata attacatat taacatatat 1320
 aattatatat atatttatct aattatatat gaaattatat atgacatata aaattatata 1380
 ttatatatgt tatatgtatt atatattata tatgttatat atgttatata taacatatat 1440
 aacatatata acacacacat ataacatata taacatatat tacatatata acatatataa 1500

3024-119-SEQ.ST25

cacatatata attatctaac atagataata tatataatat ataataataac atatatatta	1560
tatattatac actctattat attatatata ttatacataa tatataatat atatgatata	1620
atataataca ttgtatatatac gatataatat atattgtaca tagtataata tacatatata	1680
gtatattatg tataacataa tatatagtat attatgtata acataatata tagtatatta	1740
tgtataacat aatatatagt atattatgta taacataata tatagtatat tatgtataac	1800
ataatatata gtatattatg tataacataa tatatagtat attatgtata acataatata	1860
tagtatatta tgtataacat aatatatagt atattatgta taacataata tatagtatat	1920
tatgtataac ataatatata gtatattatg tataacataa tatatagtat attatgtata	1980
tataatatac atattatata gtatattatg tatatataat atacatatta tatagtatat	2040
tatgtatata taatatacat attatatagt atattatgta tatataatat acatattata	2100
tagtatatta tgtatatata atatacatat tatatagtat attatgtata tataatatac	2160
atattatata gtatattatg tatatataat atacatatta tatagtatat tatgtatata	2220
taatatacat attatatagt atattatgta tatataatat acatattata tagtatatta	2280
tgtatatata atatacatat tatatagtat attatgtata tataatatac atattatata	2340
gtatattatg tatatataat atacatgta ttgtagtatat tatgtatata taatatacat	2400
gttatgtagt atattatgta tatataatat acatggtatg tagtatatta tgtatatata	2460
atatatataa ggtgtatata tattatgtat atataatata taagggtatat atattatgta	2520
tatataatat atataagggtg tttatataat gtatatataa tatataagggt atgtatatta	2580
tgtatatata atagtatat tatatataat atatattatt tatatacatt atgtatctat	2640
ataatatata ttatgtatat attagggtatc tatataatat atattatgta tatatattat	2700
gtatctatat aatatatata ttatgtatat atattatgta tctatataat atatatatta	2760
tatgtatatt atgtatctat ataatatata taatgtatat agatatatta tatattatgt	2820
atatatatta tgtatctatt ttatatataa tgtatataga tatacaatat atattatgta	2880
tatattatgt atctatataa tatatattat ttatatagat atatatatta tgtatatata	2940
cataatatat tacatattat gtatatatac ataatatata atatattatg tatatatata	3000
taatataata tatattatat attacatata ttatatataa tatattatat tatgtatata	3060
tattatgtat atataatgta tatataatat ataaagtgta tatatattgt gtatatataa	3120
tgtatatata ttacatatat tatgtgtata tatattatac ataatatata tactacatta	3180
tacataatat g	3191

<210> 181
 <211> 314
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(314)

<223> MAR of chromosome 2 genomic contig; 728676..728989

<400> 181

tgtgtatata tgtatatata atatatatta tataaatatgc atatgtataa aatatgtata	60
ttatatatgt atatittata tatatgtata tattatatgt atatittata tatgtatatt	120
ttatatatat gtatatatta tatatgtata ttttatatat atgtatatat tatatgtata	180
ttttatatat atgtatatat tatatatgta tttttatat atatgtatat attatatatg	240
tatatittat atatatgtat attttatata tatgtatatc atatatatgt atatattata	300
tatatgtata tctt	314

<210> 182

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(423)

<223> MAR of chromosome 2 genomic contig; 737493..737915

<400> 182

ataatatata gtgtctttta tattatctaa tatgtaatat aatgtatttt atattatgta	60
ttttatatta tataatatat aatataatgt attttatatt atatgttata taatatatag	120
tgcattatat attatgttat attatatata ttttatttat ataaattata tattatatgt	180
tattttatat atattatata acatataata taacaatgca ttatatatta taaaatatat	240
aatacattac atatattata taatatataa tacattacat atattatata atatataata	300
cattatcata tattacaaat attacattag tataatagta attataatat aatatattat	360
atattacata tattatatta atgtaatagt aattataata taatatatat tatattttat	420
att	423

<210> 183

<211> 724

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(724)

<223> MAR of chromosome 2 genomic contig; 1069556..1070279

<400> 183

3024-119-SEQ.ST25

tattataata tattatatac atttatattgt atatatacta tatatgggtat atatagtata	60
cataatataa aatgtatatatt gtaatatata ttatatatat acatagtgtta cattatataa	120
tataatataa tgtatatattat aatatacatt ataatatata agtgtactat gtatatagta	180
tatataatgt atattataat gtattatata gtataatata atataatata cattatatag	240
tattgcatta tatatgctat ataatatata atatattatg tatatatata ttatatatac	300
tatattatat agtacatata atgtatatta tatagtatat ataatatata acattatata	360
tacaatatat aatgtatatatt atatagtatg tataatgtaa tacattatac atagtacata	420
aagtatatta taatatatta taatatataa tatacattat atattataat gtatataata	480
tattgtatat atactatata taatgtatat acaattatat ataattgtat atatacatgt	540
atatgtatat gtatatatac atgtatatgt atgtgtatat atacatatat gtatatgtat	600
gtgtatatat gtatatgtat atatgtatat gtatacgtat atatgtatat acaatgtata	660
tataatgtat ataaaaatat ataatatata caatatgtat ataatgtata taattatata	720
atat	724

<210> 184
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(383)
 <223> MAR of chromosome 2 genomic contig; 2719918..2720300

<400> 184	
atatttatat tttatatatt atttatatat aaatatatat ttatatattta tatattattt	60
atatataaat atatatttat attttatata ttatttatat ataaatatat attttatatt	120
tatatattat ttatatataa atatatatatt atattttata tattatttat atataaatat	180
atatttatat tttatatatt atttatatat aaatatatat ttatatattta tatattattt	240
atatataaat atatatttat attttatata ttatatattt atatattata tatattttata	300
ttaatttgtg tataatatat attattaaat ataataaata tattttattt tatatattat	360
ataaaaaatat ataatatata aaa	383

<210> 185
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(309)

<223> MAR of chromosome 2 genomic contig; 4994249..4994557

<400> 185
 tataatatat aattgttata acattataac aattatatat tatatataat acaattatat 60
 aatatatatt atataattgt aatatataat ataattatat aatatatatt atataatata 120
 atatataata tatcatatat gttatatatt ttattatata atatataatta tatataatat 180
 tatatataat atatattata tataatatta tatataatat atattatata taatatatatt 240
 atatataatta tatataatat atattatata ttaaatatta tatatataat atatataaca 300
 ttattgtta 309

<210> 186
 <211> 740
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(740)
 <223> MAR of chromosome 2 genomic contig; 5034916..5035655

<400> 186
 tttatatata aaatattata tataatatta tatataatat tttctatata aaatgtgtat 60
 ataattatat ataattatat aaaatataat atagaatatac taataatgta taatatataa 120
 catataaaaa taatattatt taatatataa ttttttatat ataatatatt tatatataat 180
 ataatatata ttttatatat aattattaat tatataatta atatataata tatattttat 240
 acataattat taattatata taattaatat ataatatatac ttatacataa ttatcaatta 300
 tatataatta atatataata tatattttat acataattat taattatata taattaatat 360
 ataatatatac ttatacataa tatatatataa tatattatat ataatatata ttatatataa 420
 tattatatat aatatatatt atatataata aatttatata taatattata tataatatta 480
 tatattttat atacaatatg atatataata taatttatat attatatata tttatatata 540
 attattatat aaattatata aatataaatt atatatttat atataattat tatataaatc 600
 attatataat tattataaatt ataatatata atataatata atattatata taatatatag 660
 tattctatat aaataatata acatatattt tatatagaat attatatata atataatata 720
 ttttttatat agaattattat 740

<210> 187
 <211> 847
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(847)

<223> MAR of chromosome 2 genomic contig; 6074678..6075524

<400> 187

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aatatagaca taaatatata tgcataaata tatatatgca taaatatata taaaaatata    60
tataaatata tacataaata tatataaata tatacaaaaa tatatatataa tatataaaaa    120
aatatataaa tatatatata catatatata tatatatata tacatatata aacatatata    180
cataaatata tatgtataaa tatatatata cataaatata tgtatgaata tatatacata    240
aatatatatg tataaatata tatacataaa tatataaaga tatatacata aatatatata    300
aatatatata cataaatata tataaatata tataaataga tatataaata tatatatataa    360
tatataaata tatatatataa tatataaata tataaaaaata gatatatataa tatatatata    420
aatatatataa tatatatata aatatatata aatatataaa tatatatata aatatatata    480
aatatatataa tatatatataa tatataaata tatatatataa tatatatataa tatataaata    540
tatataaata tatataaata tataaatata tatataaata tatataaata tataaatata    600
tatataaata tataaatata taaatatata tataaatata taaatatata taaatatata    660
taaatatata aatatatata aatatatata aatatataaa tatatatataa tatatatataa    720
tatatatataa tatataaata tatataaata tatataaata tatataaata tatataaata    780
tataaatata tatataaata taaatatata taaatatata aatatatata taaatatata    840
taaatatat                                     847

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<210> 188

<211> 784

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(784)

<223> MAR of chromosome 2 genomic contig; 6108986..6109769

<400> 188

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atttatttat atattttaata tataaaatat atattttaata tataaaatgt atatatatat    60
atatattata tataatacaa tatatattat atataatata tattatatat aatattatat    120
attatattat aatataatat atattatata taatataata tatattatat attattatat    180
ataatataat atatattata tattattata tataatataa tatatattat atattattat    240
atataatata atatatatata tatattatta tatataatat aatatatatt atatatatat    300
tttatatata taatatataa tatatatatt atatatatat tttatatata taatatataa    360
tatatatatt atatatatat tttatatata taatatataa tatatatatt atatatatat    420
tttatatgta taatatataa tatatatatt atatatatat tatatatata taatatgtaa    480

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3024-119-SEQ.ST25

tatatatatt atatatatat tatatatata atatatatata tacataaaaat atatattata	540
tataatatat ataatatata ttatatataa aatatatttt atgtataata tatattatat	600
ataatatata atgtatatatt atatataaaa tatatatatta tataacaatgt atattttatat	660
ataaaatata tattttatata caatgtatat ttatataaat atgtgtttta tatatgaaat	720
atatattttat atataatat tatttaaatct ataaaatata tattaatat atattttatat	780
ttaa	784

<210> 189
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(381)
 <223> MAR of chromosome 2 genomic contig; 10389032..10389412

<400> 189	
tatacacata tagagtatat agagtatata tagagtatat ctatagagta tatatgtata	60
tagagtatat aatacagcct accatatata tagtatacat atatatatac tctatatact	120
atatatatag tgtgtatata tatagtatag accctacat atatatatat aggagtatat	180
atatatacac actcctacta tatatagtag gtatatagag agtatataga gtatatatac	240
agtatatata cacagtatat atatgccata tatagtatct atatacttat atatagtagt	300
tatctatata cttatatata gtatgtatct atatactata tatagtagt atctatatac	360
tatatagagt atatatgtat a	381

<210> 190
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_difference
 <222> (1)..(507)
 <223> MAR of chromosome 2 genomic contig; 11097807..11098313

<400> 190	
aattatatat aatttattat atataatttt atattttataa tattttttata tacatatttt	60
atatatcttt ataattatat attacatata taatattata taatatatat aatatatata	120
atatatatta tatattatat aatatatatt atatatatta tatataatat atataatat	180
tataatatat ataatatata taatatataa tatatattat ataatatata ttatatataa	240
tatatattat atataatat tatttatatat aatatataat atatataata tatataacat	300
ataataatat attatacata atttatatat aattttttata taattatata tattttatata	360

3024-119-SEQ.ST25

tttttatata attatatata tttatatatt tttatataat tatatatatt tatatatattt	420
tatataatta tatatataat ttttatataa atatatataa ttttatataa ttttatataa	480
ttataaaata tataattata tataatt	507

<210> 191
 <211> 329
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(329)
 <223> MAR of chromosome 2 genomic contig; 11234628..11234956

<400> 191	
ttatagttaa atatatataa ataaaaatata cagttttata cagtatatat aaaatataca	60
atatataata cataatacat tagttatata tactatatat actatatata ctacacgtat	120
agtatatata tgaaactata tatatactat acgtgtagta tatatatgaa actatatata	180
tactatacgt gtagtatata tatgaaacta tatactatac gtatagtata tatatgaaac	240
tatatatact atatatactt aactataatt gtatatagtt aaaaaatata atataaaata	300
tacagttaaa tatattaata tataatagt	329

<210> 192
 <211> 584
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(584)
 <223> MAR of chromosome 2 genomic contig; 797844..798427

<400> 192	
tattatttta tgttataaat agataaaaat atatacta atatatgtac ttatatatac	60
atcaatatat aatgtattat tttatactaa cgtatattat atatactagt atataatcta	120
tattatttta tatgttataa atatatata aaatatata atattttatg catatattaa	180
tatataatat atactaacat gctaatttat atatacttat atataattta tatagtatat	240
aatatataaa tgtatataat acataattta tatatttata tattaatagt ttatatatta	300
gtatatatac taattttata tactaataaa taaattatat aatatataaa ttatatatta	360
tagtacataa tatatattat atagttaa aactatgtaa ctataatata taactatata	420
tgatatacag ttatatataa tataaatttt acatacagta tataaattat atactatata	480
tttatataca tatgggtatat aaatttatata ctatacattt atatacatat ggatataaa	540

3024-119-SEQ.ST25
 ttgtatacta tataatgtgt attagtatat atactaatat atac 584

<210> 193
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(363)
 <223> MAR of chromosome 2 genomic contig; 1093824..1094186

<400> 193
 tatacacaca catatatata cacatatata tacacatata tatatacaca tatatatata 60
 catatatata cacgtatata tgtatacaca tatatatgta tatatatata catatatata 120
 cacatatata cgtgtatata cgtatatatcg tacatatata cgtgtatata cgtatatgcg 180
 tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg 240
 tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg 300
 tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg 360
 tac 363

<210> 194
 <211> 545
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(545)
 <223> MAR of chromosome 2 genomic contig; 3456187..3456731

<400> 194
 tattataata tatatttata tattataata tatatttatat tatatattta tatattataa 60
 tatatattat attatatatt tatatattat aatatatatt atattataat atatatttat 120
 attataatat attatattat aatatatatt atattattat atattataat ataatatata 180
 ttataaatata tattatatta taatttatat attatatata ttataatata tattatatta 240
 tatatatatt tatattataa tatatattat tatatattat atattataat ttatattata 300
 ttacaatata tattataaat atatatatta tattataaat atatattttt atattacaat 360
 atatattata aatatatatt ttatattaca atatatatta taaatatata tattatatta 420
 caatatatat tataaatata tattatatta caatatatat tatattataa tatatattta 480
 tatatgatat attatattta atatattata taacataata tataatatat aatatattaa 540
 tataa 545

3024-119-SEQ.ST25

<210> 195
<211> 356
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(356)
<223> MAR of chromosome 2 genomic contig; 5001567..5001922

<400> 195
tataaaatat atgttatata tataatatat attatataat atataatata tataatatat 60
aaaatatata aaatatataa tatataatat aatatataat atatataata tataaaatat 120
atataatata aaatatatat aatatataat atatataata tataatacat ataatatata 180
atatataata tataatatat ataatatata atatataata tataatatat ataatatata 240
atatataata tatataatat ataatatata atatataata tataaatata taaatatata 300
tacacacata cacacacata tatgcatata tatacatata catgtgtaca tagata 356

<210> 196
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(321)
<223> MAR of chromosome 2 genomic contig; 5457330..5457650

<400> 196
tatacaatat attataaatt atatataatt tatatataat atatattata tataaattat 60
atataattta tataatatat aaattatata taatatataat tatatataat ttatataata 120
tataaattat atattatata aattaaatat aatttatatt atatataaat tatatttaatt 180
ttatataata tataaattat atttaattta tatataatat aaatttatatt tttatatatt 240
atgtataatt tatatattta tacatatata cattataata tattgtatag tatatataat 300
atatagtata tataaagcat a 321

<210> 197
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(361)
<223> MAR of chromosome 2 genomic contig; 8124469..8124829

<400> 197
tatatataat atatattata tatattatat aaattatata taatatgtaa tataaatttt 60

3024-119-SEQ.ST25

gtaatataaa ttatatatat aaattatata taatatatat taatatatat aatataaatt	120
aatatatata atatataaatt atatataaatt tatatgatat atataaatat atattatata	180
taaattatat atatacataaa ttatatatca tataaattat atataatata cattatgtac	240
ataatatatg atatataata tataatatat attatatata attatatata tataattata	300
taatatatat aaattataat atataatata tataaattat aatatataat atatataaat	360
t	361

<210> 198
 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(418)
 <223> MAR of chromosome 2 genomic contig; 11151485..11151902

<400> 198	
atgtaactat atatatagta tatatagtat atatatacta tatagtgtgt atatatagta	60
tatatatact atatagtgtg tatatatagt atatatatag tgtatatatc gtatatacac	120
tatatactat atagtgtata tatagtatat gtagtatata tagtatatat agtatagtat	180
atatagtata tatagtgtat atatactgta tatatagtgt acatagtata ctatatagta	240
tacatatagt aactgtata gtatatatag tatagtatat atagtataca tagtatacta	300
tatatagtat agtatacata gtatactata tagtatatag agtatatata cagtatacta	360
tatagtatat agagtatata tacagtatac tatatcgtgt gtatagagta tatataca	418

<210> 199
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(394)
 <223> MAR of chromosome 2 genomic contig; 13591477..13591870

<400> 199	
ttatatatat tttatatata ttatatatat tttatatata ttatatatat attatatata	60
tattatatat aattatatat aatatatatt atatataatta tatataatta tatataatat	120
atattatata tattatatat ataatatata tataatatat atattttata tatgtattat	180
atatatttta tatatattat atatattata tatatatattt atatataatta tattttatat	240
atataatata acatatataa tatataatta tatattatat atatattata ttatatataa	300

3024-119-SEQ.ST25

tatatattat atataatata atatataatt atatatatta tatatatttat atattttatat 360
 aaaaattatt ttatattatt ttatatataa atat 394

<210> 200
 <211> 1194
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1194)
 <223> MAR of chromosome 2 genomic contig; 14996824..14998017

<400> 200
 taatatttat atatacatat aaaatttata tataatatat aatatttata tatacatata 60
 aaatttatat atatatataa tttttatata tacatataaa atttatatat aatatataat 120
 atttatatat acatataaaa tttatatata atatataata tttatatata catataaaat 180
 ttatatataa taaatattta tatatacata taaaatttat atataattta tatataacat 240
 ataatattta tatataaaat ttatatataa catatattta tatataattt atatataaca 300
 tataatattt atatataata tatattttatt tatacaattt atatataata tataataactt 360
 atatatacat acataattta tatgatatat atttatata taatttatat gatataaat 420
 atatctaata tatatttatat atatttatata tatttatatat aatttatata atatatatta 480
 tatatataat ttatataata tatatattat atatataatt tatataatat atatattata 540
 tatataattt atataatata tatttatatat ataatttata taatatatat tatatatata 600
 atttatataa tatatattat atataattta tatataacat attttatata catatataat 660
 ttatatataa tatatattta catatacata tataattttt atataatata aaatatttct 720
 atatacatat ataattttta tataatataa aatatttcta tatacatata taatttttat 780
 ataatatata tttctatata catgtctaatt ttttatataa tatatatttc tatatacata 840
 tataattttt atataatata taatattttt atatacataa tttttatata atatatattt 900
 acatatacat atataatttt tatataatat atattttatat atacatatat aattttttaca 960
 taatatatat tatatatata tatataattt atatacaaca tataatatat acatatataa 1020
 tttatatata acatataata tttatgtata catatataat gtatacaca tatataatat 1080
 ttatatatac atatataatt tatatgtaat atatacatat ataatttata tgtaatatat 1140
 atacatgtat aattttatg tagtatatat acatgtataa ttttatatgta gtat 1194

<210> 201
 <211> 487
 <212> DNA
 <213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(487)
 <223> MAR of chromosome 2 genomic contig; 14998429..14998915

<400> 201
 tagtatacat ttacacatac atgtataatt atatgtaata tataaatatit acatatataa 60
 ttatagataa tatatatitit catatacata tataattata tataaatatat aatgtttaca 120
 tatacatata taattatata taatatatat ttaaataatac atatacaatt atatataata 180
 tatattitaca tatgcatata taattataga taatatatat ttacatatatac atatataatt 240
 atatataata tataatgtit acatatatac atataattat atataaatata titttaaata 300
 tacatatata attatatata atatatatit acatatgcat atataattat agataaatata 360
 titttacata tacatatata attatatata atatataata tttacatatata catatatat 420
 gtatatataa tatataatat ttacatatatac atatataatt tatatatat atatatitata 480
 tatatta 487

<210> 202
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(421)
 <223> MAR of chromosome 2 genomic contig; 16562490..16562910

<400> 202
 tatatgaata tatatatgaa tatatacgta tatatgaata tatacatgta tgtatatatg 60
 aatatatgta tatatatgaa tatatatgta tatatgaata tatgtatata tatgaatata 120
 tatgtatata tgtatatata tgaatatata tgtatatatg tatatatatg aatatatatg 180
 tatatatgta tatatgtata tatatgaata tatatgtata tatgaatata tatgaatata 240
 tatgtatata tatgaatata tatgaatata tgtgtatata tatgaatata tatgtatata 300
 tatgaatata tgtatatata tatgaatata tatgtatata tgtatatatg aatatatatg 360
 tgtatatgaa tatatatatg aatatatatg tgtatatgaa tatatatgaa tatatatgtg 420
 t 421

<210> 203
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(479)

<223> MAR of chromosome 2 genomic contig; 21592301..21592779

<400> 203

tatatgtata cgtatataat atattatata ttatatacgt gtacgtatat atgtaatatata	60
taatgtatat gtacacgtat ataatatata atatattata tacgtatacg tatacattat	120
atattacata tatacgtata tacgtatata aaatatatgt atatattata tatacgtata	180
taatatatat tatataatat ataatatata cgtatacata taatatatta tatatacata	240
ttatatatta tatatttaaa ttatatatta tatcatatat aatatatatg atataatatata	300
taatatacat atattacata atatataatta tatacatata catatataat atataatatata	360
ttatatacat atacatatat aatatataat atattatata catatacata tataatatat	420
aatatattat atacatatac atatataata tataatatat tatatataca tattatata	479

<210> 204

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(870)

<223> MAR of chromosome 2 genomic contig; 22557584..22558453

<400> 204

tataatatat aatatacata atatgtatat tttatacaca atataaataa tatacataac	60
atatatgtat attttatata tgtatatattt atatatatatt tatatatattt atatatatgt	120
atattttata tataatatat atattgtata taataatatata taatatatta tattatatat	180
aatatatata atatatatat aaatatatat tatatataat atgtataata tataatatatt	240
tatatataat atgtataata tatattttat atataataat atgtacaata tatattttat	300
atataataat atgtacaata tatattttat atataataat atgtacaata tatattttat	360
gtataaatatg tataatatat attttatgta taatatatat tttatgtata atatatatatt	420
tacgtatatt ttatatataa tatataatat tttatatata atatataaca ttttatatat	480
aatatataat attatatata ttatatattt tatatataat atatataaat atatatatatt	540
tatatataat atattttata tataatatat ataaatatat atattatata taatatattt	600
tatatataat atattttata tataatatat aatatatttt atatattata tataatatat	660
tatatattat atataatatata ttatatataa tatataatat ataatatatt atatataata	720
tataatatat aatatattat atataatatata taatatataa tatataatat attatatata	780
atatataata tgtaatatat aatatattt atataatatata taatatataa tataatatatt	840
tatatataat atataatatata taatatataa	870

3024-119-SEQ.ST25

<210> 205
 <211> 1086
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1086)
 <223> MAR of chromosome 2 genomic contig; 30591960..30593045

<400> 205
 gtatatataa tatatattat attatggtat atattatgta gactatgtat taaatatatg 60
 tatatattat atataaatat ataatatata tttataattht ataattataa atatattttat 120
 aatatatttt tctaaatatt tatatattat atattatattc taatgatata taataaatat 180
 atttctaata tatttttatat ttataaatat tttatatata ttatatatttt tatatatatt 240
 atatattata tatttatatat tttatatata ctatatatta tatagtatat attttatata 300
 tactatatat tatatattat atattttata tatactatat attatatatt atatattttta 360
 tatatactat atactatttt ttatatatttt tatatatattc atatactatt tatttatatat 420
 tttatatata ctatatatta tttatttatat attttatata tactatatat tatatattat 480
 atattttata tataatatat atttattata tatttttatat attatatata ttatatatta 540
 tatattttata tatttatataa tatatattat atatagaata tataatatat attatatata 600
 atataatata atatattatta tataaaatatt atataatata taaaatatat aatatatgat 660
 atatataata tatattctat atttatacat atatattttta tatttatatta atatataatt 720
 atatattattc atatgtaata atagatatata tatgtaatat ataaattata attatatatt 780
 aatatattat attatttaatt atgtatatatt acacatatat taattattta atatatatat 840
 ttaatatatt aaatatattg tattaaatat atataatata tttataaata ttttatatat 900
 aatatataca tatattaaca tatatgtata tatgtatata ttatatataa cattatatat 960
 attatgttac atatactata ttttatatgt tacatatattc atatattata tgttacatat 1020
 aatatatata acatatatta taatatgtaa catatttatat ataacatata atatatagta 1080
 tatata 1086

<210> 206
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(406)
 <223> MAR of chromosome 2 genomic contig; 36233909..36234314

3024-119-SEQ.ST25

<400> 206
attataaata tatattatag atattagata ttatagatat aatatatata atatatatta 60
tagatattat agatatagat ataatagata ttatagatat tatagatata atatatatta 120
tagatattat agatataata tatattatag atattataga tataatatat attatagata 180
ttatagatat aatatatatt atagatataa tatatattat agatattata gatatagata 240
ttatagatat tatatatatt atagatataa tatatattat agatattata gatatagata 300
ttatagatat aatatatatt atagatatta tagatataat atatattata gatattatag 360
atataatata tattatagat ataagatata ttatagatat tacaga 406

<210> 207
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(797)
<223> MAR of chromosome 2 genomic contig; 36271745..36272541

<400> 207
atataaacat atacgtatat acacatatat acaaatacat atatacatat attatatata 60
tgtatatata ttatattata catatattat atatatatta tattatacat atatacatat 120
acacataaac atattacata catatacaaa ttatacacat atacatatat acatatatgt 180
atatacatat attatatata aatatatgta tataaaatgt acattatata tacatatata 240
ttatgtataa ataatatata aaataaacat aatatatatt tatagatatg atatatataa 300
tatatatgta tacatatata catatatgta tatataatgt acattatata tacataaaca 360
tcatatataa atgttatata tataatataa atatatataa tatataatat atactttata 420
tactatatat aatatatata atatgatata acatatataa tatataactat atataatat 480
tactatatat actgtatat atatatataa taatatatac tatatatatac aaatataata 540
tacataatat aatatatact atatatataa tataatatat aatatagtat atatactata 600
tataataatt acatattata tattatacat tatatattat ataattatta tatataatta 660
tatattacat actttgtata taatgtaa atacattaga atatatatg tatatatatg 720
tacatatata atgtatatat gtatacatta tataaactat atataaacat tatattatat 780
aaacattata tataaac 797

<210> 208
<211> 423
<212> DNA
<213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(423)
 <223> MAR of chromosome 2 genomic contig; 36498521..36498943

<400> 208
 tattatatta tatattttaat attatatatt taatatatta tatattttaat attatatatt 60
 taatatatta tatattttaat attatatatt taatatatta tatattttaat attatatata 120
 taatatatta tatattttaat attatatata taatattata tatataatat tatatatatta 180
 atattatata tataatatta tatatataat atattatata tttagtatta tgtattttaat 240
 atattatata tttagtatta tgtattttaat atattattta tttagtatta tatattttaat 300
 atattattta tttagtatta tatattttaat atattatata tttaatatat tatatatatta 360
 ttatatattg tatattttaat atattatata ttattatat attatatata attatatatt 420
 taa 423

<210> 209
 <211> 304
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(304)
 <223> MAR of chromosome 2 genomic contig; 37179891..37180194

<400> 209
 gtgtatatat atcatatata ttatatcata tatatgtgta tatatatcat atattatattc 60
 atatatatgt gtatatatat catatatata tcatatatgt gtatatatca tatatattat 120
 atatcatata tgtgtatata tatcatatat tatatatcat atatatgtgt atatatcata 180
 tatattatat atatctcata tgtgtatata tatcatatat aatatatatg tgtatatatc 240
 atatatcata tataacatat atatgtgtat atatcatata tataacatat atcatatatg 300
 tgta 304

<210> 210
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(693)
 <223> MAR of chromosome 2 genomic contig; 38440448..38441140

<400> 210
 tatatattct tttatatatt atatataata tatattcttt tatatattat atatagtata 60
 tattctttta tatattatat atagtatata ttcttttata tattatatat agtatatatt 120

3024-119-SEQ.ST25

cttttatata ttatatatag tatatatatt tttatatatt atatatacta tatattcttt	180
tatatattat atatagcata tattctttta tatattatat atataatata tattctttta	240
tatatcatat ataatatata ttcttttata tattatatat aatatatatt cttttatata	300
ttatatatca tgtatatata atatacaaaa tatatataga ttttatatat agattattac	360
ataatagaat atatttatata ttatatataa tatatacata atatataata ttatatatga	420
tataatatat atcatatata tcatataata tatattatat atcatatatt atatataata	480
atatatagat tatatatataat tatatatata atatatataa ttatatatat tatctatata	540
tagataatat atataattat atataatata ttatatagat tatatatataat tatattatat	600
acaaaatcta tatataatat atatttatatt atatataata tacataacta tataaaaaat	660
ataatatata atatatataa tatataatat ata	693

<210> 211
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(471)
 <223> MAR of chromosome 2 genomic contig; 38887582..38888052

<400> 211	
aacatatata ctatatatat tatatactat attatatatt atatataaa acatatatac	60
tatatataat atataaacat attatattat acatgatata gataaacata tatattatat	120
ataatataga taaaatatgt tatatatataat ataattgata gacatatatt atatatacat	180
atattctaca tatattatat atatattcta cacatattat attatatata catatattct	240
acatatatta tatatacata tattctacat atattatata tacatatatt ctacatatac	300
atatatacat atattatata tacatatatt atagatatat aatatataaa catatataat	360
attattatat ataatatata taataatatt atataatata taataatatt atatcttata	420
tataaataat atatatatatt tatatatata atattatata tatataatat a	471

<210> 212
 <211> 1221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1221)
 <223> MAR of chromosome 2 genomic contig; 43885944..43887164

<400> 212

3024-119-SEQ.ST25

catataaaca tatattatat gtaacatata aacatattat atgtaacata taatatataa	60
tatataaaca tatatTTTTat atattatatg ttacatatata tatataatat ataaacatat	120
attatatatt atatgtaaca tataatatat aatatataaa catatatttt atatataata	180
tataaacata ttttatatat aatatataaa catatTTTtat atataatat taaacatata	240
ttttatatat aatatataaa catatTTTtat atataatat taaacatata ttttatataa	300
tatataaaca tataatatat ataatatata aaagtatat atataaatat atataatat	360
aacatatata atataaatat atataaaaata taaacatatg taatatataa acatatatta	420
tatataatat ataaacatat attatacgta caatatataa acatatattg tacgtacaat	480
atataaacat atattatacg tacaatatat aaacatatat tatacgta atatataaac	540
atatattata cgtacaatat ataaacatat attatacgta caatatataa acatatatta	600
tacgtacaat atataaacat atattatacg tacaatatat aaacatatat tatacgta	660
atatataaac atatattata cgtacaatat ataaacatat attatacgta caataaacat	720
atattatacg tacaatatat aaacatatat tatacgta atatataaac atatattata	780
cgtacaatat ataaacatat attgtacgta caatatataa acatatatta tatgtataat	840
atataaacat ataatatata atatatatta tatatatgtt tattatatat gtttatatat	900
tatatataac atatattatt atattatata tgTTTTatata ttatatatta tataatatat	960
atgTTTTatatt attatatatt atataatat tatgTTTTata tattatatat tatataatat	1020
atatgTTTTat atattatata ttatatataa tatatgttta tatattatat attatataat	1080
atatatgttt atatattata tattatataa tatatatgtt tatatattat atattatata	1140
atatatatgt ttatatatta tatattatat aatatatatg tttatatatt atataaataa	1200
taaacttaca tttttatta a	1221

<210> 213
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(543)
 <223> MAR of chromosome 2 genomic contig; 45818200..45818742

<400> 213	
tatgtatata tacatatata tttatacatg tatatatgta tatatacata tatatttata	60
catgtatata tatacatata tttttatata tgtatatata tacatatata tttatacatg	120
tatatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta	180
tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta	240

3024-119-SEQ.ST25

tgtatatata catatatatt tatacatgta	tgtatatata catatatatt tatacatgta	300
tgtatatata catatatatt tatacatgta	tgtatatata catatatatt tatacatgta	360
tgtatatata catatatatt tatacatgta	tgtatatata catatatatt tatacatgta	420
tgtatatata catgtatatatt tatacatgta	tgtatatata catgtatatatt tatacatgta	480
tgtatatata catgtatatatt tatacatgta	tgtatatata catgtatatatt tatacatgta	540
tac		543

<210> 214
 <211> 463
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(463)
 <223> MAR of chromosome 2 genomic contig; 47055478..47055940

<400> 214	
atacacat atatacatat atacacatataa tacacacata tttacatata	60
tacacacata tatacatata tacatatata cacatatata catgcataca catatatata	120
tatatacaca catatacaca catatatata tatatacaca tatatacaca tatacacata	180
tatacacaca tatacatata tacacatata tacatatata catatatata cacatatata	240
catatatata tatacacata tatacacata tacatatata cacatatata cacatatata	300
catatatata catatatata tatatacaca tatatacaca catatacaca tatatacata	360
tatacatatg tatacacata tatacatatg tatacacata tatacacata tacatatata	420
catacacata tatacgtata tatgtgtata tatacacata tac	463

<210> 215
 <211> 2482
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(2482)
 <223> MAR of chromosome 2 genomic contig; 47492696..47495177

<400> 215	
aatatatata aaatatatta ttttctatgt aatatataga atatataaaa tatattctat	60
atattatata gaatatatat ttataatat atattattta tatattttta tatattttata	120
ttattttat atttatatat aatttatata atttatacat ataattttata tataattttat	180
ataaattata tatataattt atatataatt tatatataat ttatataaat tatatatata	240
atttatatat aatttatatg atttttatat ataattttata tataattttat ataattttta	300

3024-119-SEQ.ST25

tatataat	ttatata	ttatata	ttatata	ttatata	ttatata	360
aat	ta	aat	tata	atata	tata	420
atata	tata	ttata	tata	attata	aat	480
attata	ata	cata	ata	tata	atata	540
tata	ttata	aat	attata	atg	ta	600
atata	tata	atata	tata	attata	aat	660
ttata	atata	ata	tata	ttata	atata	720
tata	attata	ttata	tata	tatt	ttata	780
ttacata	ttata	attata	aat	ttata	attata	840
aat	atata	attata	aat	tata	ta	900
ata	ta	tata	tata	aaa	ctata	960
tata	attata	atata	tata	tata	aat	1020
atata	ttata	tata	atata	tata	tata	1080
aat	gtata	ttata	tata	atg	attata	1140
atata	tata	aat	ctata	tata	ata	1200
atata	ata	ttata	aat	ctata	tata	1260
ata	attata	aat	tata	ttata	atata	1320
tata	ata	ttata	aat	tata	ttata	1380
atata	tata	ata	ttata	aat	tata	1440
ttata	atata	ata	ttata	aaa	aat	1500
tata	ttata	atata	tata	ata	attata	1560
atata	tata	ttata	atata	tata	ata	1620
attata	atata	tata	ttata	atata	tata	1680
ata	attata	atata	tata	ttata	atata	1740
tata	ata	attata	atata	tata	ttata	1800
atata	tata	ata	attata	aat	tata	1860
ttata	atata	tata	ata	attata	atata	1920
tata	ttata	atata	tata	ata	attata	1980
aat	tata	atata	tata	atata	tata	2040
atata	tata	aaa	ttata	tata	atg	2100
tata	atata	tata	attata	atg	tata	2160

3024-119-SEQ.ST25

atattatata taatgtatat tatataatat atattatata ttataatat taatatacat	2220
tatatattac atattatata taatatatta tatattatat attacatatt atatataata	2280
tattatatat tatattaaat atatatttta tatattatat attatatatt atataaaata	2340
tatatattat atattatata aaatatatat atattatatt atatattata ttaaatatat	2400
attttatata taatatatat aatatataat atataaaata tatattatat attatatata	2460
aattatatat attatatata aa	2482

<210> 216
 <211> 539
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(539)
 <223> MAR of chromosome 2 genomic contig; 47561069..47561607

<400> 216	
aacagtaata tatcactaat atataataat atataacagt aatatatcat taatatataa	60
tatatcatta gtatataata ttaatatata ttaatatata atatatcata tacaatatta	120
atatatatta atatataata atatattatt aatgtataat agtaatataa tatattatca	180
atatatatta ctaatatata ataatatatc gttatatat aatagatcat taatatataa	240
tgttaatata ttatgaatag ataatatatc agtatataat attaatatat taatatatta	300
tatattattt aataatatat aatatattaa taaataatta tatattaata tagcaatata	360
ttaatatatg actgtattat attattaata tataacaata tattatatat tatataataa	420
tttattatat aatatataat aatatattat atattatata acatattaat aatacataat	480
aacattaata atatataata atgttaatat attattatat tatatattaa tatataata	539

<210> 217
 <211> 336
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(336)
 <223> MAR of chromosome 2 genomic contig; 52853648..52853983

<400> 217	
tatatacata aaatatatat attttatata tatacataat atatatatgt atattttatg	60
tatatatcta taatatatat aatataataa aatatacata tatattttat atatataata	120
tatacatata aaatatacat acataaaata tacatgtata ttttatgtat atataatata	180
tatataaaat atacatgtat attttatata tataatatatc atgtataatt aatatacatg	240

3024-119-SEQ.ST25

tatggttatat atattacatg tatattatat ataatatata tataaatttt aaatttagtg	300
tatattacat gtatattata tataatatat gtatat	336

<210> 218
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(406)
 <223> MAR of chromosome 2 genomic contig; 54866263..54866668

<400> 218	
tacgtatata aaaatgtata ttacatata taaaataaat attttatata cgtatataaa	60
atatatattt attttatata cgtatataaa atatttattt tatatatgta tataaaatat	120
ttattttata tacatgtata ttaaatatat atttatatat gtatataaaa atatatatta	180
tatacatgta tataaaatat atatttatata tgtatataaa aatatatatg tatataaaat	240
atatatatta tatagatata taaaatatat atttatataga tatataaaat atatatatta	300
tatagatata taaaatatat atatttatata gatataataa atatatatat tatatagata	360
tataaaatat atatattata tagatatata aaatatatat attata	406

<210> 219
 <211> 1452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1452)
 <223> MAR of chromosome 2 genomic contig; 55113305..55114756

<400> 219	
ataatatata atatatttg tatattatat tatttatatat tatatattat taaatatata	60
tatttatatta tatattatat aatatatatt atatataata atatagaata tataattata	120
tatttatatta tatattatat aatatatatt atatataata atatagaata tataattata	180
tatttacta tatattatat aatatatatt atatataata atatagaata tataattata	240
tatttatataa tatgtgaata atgtaatatata taatttatatt atttacatat tatataatat	300
ataattatat tatataatat ataattatat tatttgtata ttatatataa catatacatt	360
atatttatata taatataatt atatataatt aattataaat taatttatata taatttatata	420
atataatata taatatacat aatatataat atataatata taatatacat aatataatat	480
atatttatata taatataata tatataatat aatataatat aatgtataat ataattatat	540

3024-119-SEQ.ST25

attatatata atatataatg ttatataatt atattatatt atataattaa ttatatgtaa 600
 ttaatataat ataattatta tatataattt tttatataat ataatatata attatataat 660
 ataatatataat tatattatat tatataatat atatataatta tataatataa tataattata 720
 ttatataatt atataatata atataattat atattatatt atataataaa tataattata 780
 taatataata tgattatata atatattatg tatattatat attatatatt gtattatgta 840
 tattatatat tatatattat gtatattata tattatgtat attatatatt atgtatatta 900
 tatattatat attatattat gtataatata ttatgtatgt tatatataat ataaattata 960
 ttatatatta tgtatattat atataaatta tattatatat tatgtatatt atatataata 1020
 taaagtatat attatgtata ttatatataa tataaagtat atattatgta tattatatat 1080
 aatataaagt atatattatg tatattatat ataataaaa gtatatatta tgtatattat 1140
 atataatata aagtatatat tatgtatatt atatataata taaagtatat attatgtata 1200
 ttatatataa tataaagtat atattatgta tattatatat aatataaagt atatattatg 1260
 tatattatat ataataaaa gtatatatta tgtatattat atataatata aagtatatat 1320
 tatgtatatt atatataata taaagtatat attatgtata ttatatataa tataaagtat 1380
 atattatgta tattatatat aatataaagt atatattata tgttataaat tatatattgt 1440
 tatatattat at 1452

<210> 220
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(502)
 <223> MAR of chromosome 2 genomic contig; 56350637..56351138

<400> 220
 atatattata gaaatataaa tatatagata tatctatata ttatagaaat ataaatatat 60
 agatatatct atatattata gaaatataaa tatatagata tatctatata ttatagaaat 120
 ataaatatat agatatacct atatattata gaaatataaa tatatagata tacctatata 180
 ttatagaaat ataaatatat agatatacct atatattata gaaatataaa tatatagata 240
 tatctatata ttatagaaat ataaatatat agatatatct atatattata gaaatataaa 300
 tatatagata tatctatata ttatagaaat ataaatatat agatatatct atatattata 360
 gaaatataaa tatatagata tatctatata ttatagaaat ataaatatat agatatatac 420
 aacatatatg ttacatatta tatattatat atctatatat ctatataaca ttatatatct 480
 atatatctat ataacatata ta 502

3024-119-SEQ.ST25

<210> 221
 <211> 794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(794)
 <223> MAR of chromosome 2 genomic contig; 57051633..57052426

<400> 221
 aactatatat actatattat atagttatac tatatatact atattatata gttatataac 60
 tattatataa ctgtattata tagttatata actattatat aactgtatta tatagttata 120
 taactattat ataactgtat tatatagtta tataactata ttatataact gtgttatata 180
 gttatatatt atataactat attatataac tgtattatat agttatatat tatataacta 240
 tattatataa ctgtattata tagttatata ttatataact atattatata actgtattat 300
 atagttatat attatataac tgtattatat agttataaaa ctatattata taactgtatt 360
 atatagttat aaaactacta tataactgta ttatataatt ataaaattat actatataac 420
 tgtattatat agttataaaa ctataactata taactgtatt atatagttat aaaactatac 480
 tatataactg tattatatag ttataaagct atactatata actgtattat atagttatat 540
 aactatacta tataactgta ttatatagtt ataaaactat actatataac tgtattatat 600
 agttataaaa ttatattata taactgtatt atatagttat ataactatat tatataactg 660
 tattatatag ttatataact atattatata agtgtattat atagttatat aactatatta 720
 tataactgta ttatacagtt atataactat attatataac tgtattatat acttatataa 780
 ctatattata taac 794

<210> 222
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(300)
 <223> MAR of chromosome 2 genomic contig; 57069272..57069571

<400> 222
 acacatacat atatgtatat atgcacacac atatatatgt atatatacac atacatatat 60
 gtatatatac atatatgtat atacgcacat acatatatgt atatatacac gtacatatat 120
 gtctctatat atacacatac acatatgtat atacatatat gtgtatatat acacaatcat 180
 atatgtatat acatatatac acatatacac aaacatatat gtatatacat atatgtatat 240
 acatatatac acatatatac aaacatatat gtatatacat atatgtatat acatacacia 300

3024-119-SEQ.ST25

<210> 223
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(370)
 <223> MAR of chromosome 2 genomic contig; 57235143..57235512

<400> 223
 tattttttata tataactata tatatttttat atataaatta tatatatgat catatatata 60
 atcatatata taatcatata tgattatata tgatcatata tatattttata tatataatta 120
 tatatactta tatataatta tatatatatt tatatatata attatgtata cttatatata 180
 tttatatata taattatata tacaattttat atatataatt atatataatt tatatataat 240
 tatatatata aattatatat aagtatatat aattatatat atgtttatat ataattatat 300
 atataaatga tatgtataat atataactat atataattat atataaatat atatatagat 360
 tttatatata 370

<210> 224
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(306)
 <223> MAR of chromosome 2 genomic contig; 57693125..57693430

<400> 224
 tacgtatata cacgtataaa tataaatata tacatgtata tacgtatata catgtataaa 60
 tataaatata tatatgtata tacgtatata catgtataaa tatatatatg tatatacgta 120
 tatacatgta taaatatata tatatgtata tacgtatata catgtataaa tatatataca 180
 tgtatatacg tatgtttgtgt atacatacaa atctgtacat atatacatat atgtttgtgtg 240
 tatatataca tctatacatg tgtatgcgta tatatgtata tgtatatata gtatatataa 300
 tacatg 306

<210> 225
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(500)

<223> MAR of chromosome 2 genomic contig; 59810331..59810830

<400> 225
 tttattatat gtaatatata ttgtattatt atatataatta tatataatat atattgtatt 60
 attatatata ttatatataa tatatatattgt attattatat atattatata taatatatat 120
 tgtattatta tatatatatt atataatata tattgtatat tatatatatt atatattata 180
 ttattatata ttatatatat tatattatta tatattatat attatatata ttatattata 240
 tattatatat tatattatat atattatatt atatattata tattatatta tatatattat 300
 attatatatt atatattata ttatatatat tatattatat atattatata ttatatatta 360
 tatatattat atattatata ttatatatat tatatattat atataatata tattatatta 420
 ttatataata ttatatatta tatatattat atattatata taatatatat tatattatta 480
 tataatatta tatattatat 500

<210> 226
 <211> 565
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(565)
 <223> MAR of chromosome 2 genomic contig; 59974589..59975153

<400> 226
 atatatgtat aatatgtata tatgtatata ttatgtatat gttatatatg taatatatgt 60
 atgtatatat tatatatcat atataatata taatgtgtat atatgtatat atgtatgtat 120
 acatgtatat actatgtata tattgtatat attatatatg tatatataca tatacatata 180
 taatatatac atatattata tacaatatat acatgtatat tatatacgat atatacatat 240
 atattatata caatatatac atagtatata aatgtatata tacatacata tatacatatt 300
 atatatgtat atatgtatac ataaatgtat atataatata tatacatata taaatgtata 360
 catacgtaca tatacgtata tgtatatgca tatatgtata tatgtgcata catatatatg 420
 tatatacata tatgtacata tgtacatata cgtatatatg tacatatgta catatacgta 480
 tatatgtaca tatgtacata tacgtatata tgtacatatg tacatatatg tatatatgta 540
 catatgtaca tatatacata tatat 565

<210> 227
 <211> 427
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(427)

<223> MAR of chromosome 2 genomic contig; 60605573..60605999

<400> 227

tatataatgt atataatgga tatagatata gatatagata tatattttat ataatatata	60
ttatatatta tatataatat atgttatata tattatatat tttatataat atatatatta	120
tataaattat atatatataa tatataatat atatattata tatattttat ataatatata	180
tttaattatta tctattatat attttatata atatatattt tatataatat ataatatata	240
atatatattt tacataatat ataatatata atacgtatta tatataatat ataatacgta	300
ttttatataa tatataatac gtattatata taatacgta tatatattat ataatatata	360
atacgatta tataatatac gtaattatat tttattataa tacgtattat atattatata	420
atatata	427

<210> 228

<211> 1199

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1199)

<223> MAR of chromosome 2 genomic contig; 61229949..61231147

<400> 228

gtatacatat ataaagtgt tatataatgt atatacatat atacatatat aaagtatata	60
tataatatat acatatataa agtatatata taatatatac atatataaag tatatataat	120
atatacatat ataaagtata tataatatat acatatataa agtatatata tcatatatac	180
atatataaag tatatatata atatatacat atatacatat ataaagtata tataacatat	240
atacatatat aaagtatata taacatatat acatatataa agtatatata taatatatac	300
atatatacat atataaagta tatataacat atatacatat atacagtata tataacatat	360
atacatatat acagtatata taacatatat acatatatac agtatatata acatatatac	420
atatatacag tatatataac atatatacat atatacatga agtatatata acatatatac	480
atatatacat gaagtatata taacatatat acatatatac atgaagtata tataacatat	540
atacatatat acatgaagta tatataacat atatacatat atacatatat aaagtatata	600
taacatatatac atatatacat atataaagta taacatatatac atatatacat atataaagta	660
tatataatat ataacatata catatataaa gtatatataa tatataacat atacatatat	720
aaagtatata taatatataa catatacata tataaagtat atataatatata tacatatata	780
catatataaa gtatatataa tatatatata catatataaa gtatatataa tatatatata	840
tatatacata tataaagtat atataatatata tatacatata taaagtatat ataatatata	900

3024-119-SEQ.ST25

tacatatata catatataaa gtatatataa tatatatata tatatacata tataaagtat	960
atataatata tatacatata tacatatata aagtatatat aatatatata catatatata	1020
tatataaagt atatataata tatatacata tatacatata taaagtatat ataatatata	1080
tacatatata catatataaa gtatatataa tatgtatata tatatacata tataaagtat	1140
atataatg tatatacatata tacatatata aagtatatat ataatatgta tacatatat	1199

<210> 229
 <211> 454
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(454)
 <223> MAR of chromosome 2 genomic contig; 62181058..62181511

<400> 229	
tatatatcat atattatata tgatatatat tatgtatata atacatatta tatataataa	60
atatttatta tatatgatat atattatgta tataatacat attatatata ataaatatat	120
attatattat atataataaa tatatattat attatatata atatatatatt atatataaat	180
atattatata taaatatata ttatatataa aatatttata tattatatat aaatatatat	240
tatatataaa tatttatata ttatatataa atattttatat attatatata aatatttata	300
tattatatat aaaatatatt atatatatata tatatattat atattatata taatatattt	360
aatatataat atataaacat atattatata taatatataa acatatataa atatatttat	420
atataataga taaaaatata tataatatat ataa	454

<210> 230
 <211> 658
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(658)
 <223> MAR of chromosome 2 genomic contig; 62190919..62191576

<400> 230	
tatatacaca actatatata taactatata tatacaacta tatatacaac tatatatata	60
actatatata taactatata taactatata tataactata tataactata tatataacta	120
tatatataac tatatataac tatatatata actatatata actatatata actatatata	180
taactatata tataactata tatataacta tatatataac tatatatact atatataata	240
ctatatatat ataactatat atataactat atatataata ctatatataa ctatatatat	300
ataactatat atataactat atatataata ctatatatat aactatatat atataactat	360

3024-119-SEQ.ST25

atatataact atatatatat aactatatat aactatatat atataactat atatataact	420
atatatatat aactatatat ataactatat atatataact atatatatataa ctatatatat	480
ataactatat atataactat atatataact atatatatataa ctatatatat ataactatat	540
atataactat atatatatataa ctatatatat aactatatat ataactatat atataactat	600
atatatatataa ctatatatat aactatatat atataactat atatataact atatatat	658

<210> 231
 <211> 1486
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1486)
 <223> MAR of chromosome 2 genomic contig; 62384127..62385612

<400> 231	
attatatcta atctattata tattatatct aatacatatt atatctaadc tattgtatat	60
tatatctaatt atataatata ttatatataa tatattatat attatatatt atatacaata	120
tattatatat tatataatat ataatatatt atatataata tattatatct aatatattac	180
atatttatatc taatctatta tagatataat atgtaatata ttatatatta tatctaatag	240
atatttagata taatatataa tatattatta atataatata ttagatataa tatataatat	300
aataatatat aatatatatt attggaata tataatatat aattaataat atatattata	360
tataattatt atgaataata tatcatatat aatatctagt atattatata ttaataacat	420
ataaatatta tattaataat aaataacata ttaatatatt attaataata tataatatac	480
taatattata ttaataatat ataatatact aatattatat taataatata taatatacta	540
atatttatatt aataatatat aatatactaa tatttatatta ataatatata atatactaatt	600
attatatataa taatatataa tataactaata tattaagaat atataatata ctaatatatt	660
aagaatatat aatatactaa tatttatatta ataatatata tttatattaa taatatatta	720
attattatta attaatatt aataattata taatatattgat tatattaata ttatcaattt	780
aataatattg attatatatt atatattata tattatatat tatatattat atattatata	840
ttatatatta ataatatata ttagatataa tataatatat taataatata taagatataa	900
tataatatat taataatata tattagatat aatataatat attaataata tatattagat	960
ataatatatt atattaataa tatatatagg atataatat atatattaat aatatatatt	1020
agatgtaata taatatatta ataatatata ttagatgtaa tataatatat taataatata	1080
tattagatgt aatatatat attaataata tatattagat gtaatatatt atattaataa	1140
tatatattag atgtaatata atatattaat aatatattat agatgtaata taatatatta	1200

3024-119-SEQ.ST25

ataatatata ttagatgtaa tataatatat taatatatat tagatgtaat ataatatatt	1260
aataatatat attagatata atataatat ttaataatat attagatata atataatat	1320
ttaataatat ataagatata atataatat ttaataatat ataagatata atataatat	1380
ttaataatat ataagatata atataatat ttaataatat atattagata tataatatat	1440
taataatat tattagatat ctaatatcta ttagatatct aataga	1486

<210> 232
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(333)
 <223> MAR of chromosome 2 genomic contig; 62538649..62538981

<400> 232	
ttatatatat tatatatata tttttatat atatattata tatatatattt atatatatat	60
tatatatatata ttttatatat atattatata tatattttat atatatatta tatatatatt	120
ttatatatat tatatatata ttttatatat attatatata tttttatat atatattata	180
tatatatttt atatatatat tatatatata ttttatatat atattatata tatattttat	240
atatatatta tatatatatt ttatatatat attatatata tttttatat atatattata	300
tatatatttt atatatatat tatatatata ttt	333

<210> 233
 <211> 480
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(480)
 <223> MAR of chromosome 2 genomic contig; 63240325..63240804

<400> 233	
tatatataaa atatatatatt tttaaatata aaatatatat atattttaat attaatatat	60
atatatttta atatataata tatatatattat atattttata tataaaatat atatattata	120
tattttatat ataaaatata tatattatat attttatata ttaaaatata tttttatat	180
attttaatta ttaaaatata tatattatat attttaaata taaaatatat atattatata	240
ttttaatata taaaatatat atattatata ttttaatata taaaatatat atattttata	300
tttatatata taaatatata tatttatatat tttaatatat aaaatatata tatttatatat	360
tttaatatat aaaatatata tatttatatat tttaatatat aaaatatata tatttatatat	420

3024-119-SEQ.ST25

tttaatatat ataaaatata tatattatat attttatata tattaaatat atattttata 480

<210> 234
 <211> 302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(302)
 <223> MAR of chromosome 2 genomic contig; 63935480..63935781

<400> 234
 atatatataa atatatatat aattatatat agatatatat aattatatat agatatatat 60
 attctatatt ctatatatat ataatatata atatataaat tatatataga atatatatta 120
 tatataatat attatatata ttatatataa tatatatatt atatatatta tatataatat 180
 atatattata tatattatat ataatttata tatattatat atagaatata tattatatat 240
 agaatataga atatatataa tatatataga atacagaata tatatagaat atagaatata 300
 ta 302

<210> 235
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(407)
 <223> MAR of chromosome 2 genomic contig; 63935888..63936294

<400> 235
 tataatatat taatataata tatagacagt atataatata atatacagac agtatataat 60
 atacagacag tatataatat ataattattat atataatatt atatataata ttatataata 120
 tattatatta tatatattat ataattattat atattatata taatatatgt aatattatat 180
 attatattat acataatata ttatatataa tatattatat ataattattat atatattata 240
 tataatatat ataataataa tattataata tataatatat aatagtagacag tatatattat 300
 atatataatt ctatatataa tatatagaat tctatctatt tataatatat atagaattct 360
 atatataata tataatatac agaattctat atatattata tatagaa 407

<210> 236
 <211> 302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(302)

<223> MAR of chromosome 2 genomic contig; 66958350..66958651

<400> 236

tattatatat attgtatata tatgtatatt atatatattg tatatataat gtatattata	60
tatattatat atatatgtat attatatata ttgtatatat atgtatatta tatatatattgt	120
atatatgtat atgtatatat gtatgtgtat atatatacac atatacacat atatgtgtat	180
gtatatatat gtgtgtatat acgtatatat acatatatac aattttttgta tatatacata	240
tatacacata tatatgtgta tgtgtatatata tatacacata tatgtgtgtg tatatacaca	300
ta	302

<210> 237

<211> 651

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(651)

<223> MAR of chromosome 2 genomic contig; 68307125..68307775

<400> 237

gatattatat attgtatata ttatatatgt atataatata ctattatata ttatatatgt	60
atataattttt attaatatat atatttatatt atatttatata ttatattata ttatattata	120
tatataatat taatattata tattattata tattatatta tattaatatt atatatatat	180
aatatatata atatatataa tagtattata tataatatat ataatagtat tatatattat	240
atatatataa tactattata tatattatat ataatagtat tatatatatt atatatataa	300
tactattata tataatatat actattatat aatatatata atactattat atatattata	360
tataatacta ttatatataa tatatataat actattatat ataatatata taatactatt	420
atatataata tatataatac tattatatat aatatatata atactattat atataatata	480
tataatacta ttatatataa tatatatatt atatataatt atattaatat ataatagtat	540
catatataat aatagtatat ataatatata atatatatat tatatatatt ataatagtat	600
atataacata taatatagta tatatattat atattatata taaaatattt a	651

<210> 238

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(367)

<223> MAR of chromosome 2 genomic contig; 68308243..68308609

3024-119-SEQ.ST25

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<400> 238
atatatatat atgagtcaac catacacata tatatatata atgtttatat atataatgta      60
tatatataat gtttatatat aatgtatatata tataatgttt atatataataa tgtatatata    120
taatgtttat atatataatg tatatatata atgtttatat atataatgtg tatatataat      180
gtttatatat ataatgtgta tatataatgt ttatatataa tgtgtatatata taatgtttat     240
atatataatg tgtatatata atgtttatat atataatgtg tatatataat gtttatatat      300
ataatgtgta tatatataat gtttatatat ataatgtgta tatatataat gtttatatat      360
ataatgt                                           367

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<210> 239
<211> 499
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(499)
<223> MAR of chromosome 2 genomic contig; 410241..410739

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<400> 239
ataaatatgta tatatattat attatatatt atattacata ttatatatta tattacatat      60
tatatattta tatattacat attatatatt atattttata ttatatatta tatcatatat      120
atgtttatgca ttatataata cataatatat tatatatgat ataatatata ttatatatta      180
ttatatataa tataattaat atattatgta ttatataata tatattatgt tataatatat      240
aatatatatt atataattat ataatatatt atgtattata taatatatat tatgtttataa      300
tatattatat tatatatatt atatatatat tatatatata atgtatatta tatataatac      360
ataatatatt atatattata tattatttta tataatatat tatataatgt gatattattat      420
ataatatatt atataacata gtatattata taatatatta tataatgtaa tatattatat      480
attatataat atattgtat                                           499

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<210> 240
<211> 402
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(402)
<223> MAR of chromosome 2 genomic contig; 31531..31932

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<400> 240
cacattatat atataaacat tatatatata cacattatat atataaacat tatatatata      60
cacattatat atataaacat tatatataca cattatatat ataaacatta tatatacaca      120

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3024-119-SEQ.ST25

ttatatatat aaacattata tatacaaatt atatataata acattatata tacaattat	180
atatataaac attatatata tacattatat atataaacat tatatatata cattatatat	240
ataaacatta tatatatata ttatatatat aaacattata tatatacatt atatataata	300
acattatata tatacattat atatataaac gttatatata tacattatat atataaacat	360
tatatgtata cattatatat ataacatta tatatatatg tg	402

<210> 241
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(421)
 <223> MAR of chromosome 2 genomic contig; 32415..32835

<400> 241	
ataaatattt tatatataat atataatata tatactatat tatatgttat atatactatt	60
ataatatata taatatatat attatatatt atatatacta ttattatata tgatactatt	120
atatattaat ataattatat ataatatata tattatataa tatactatta tatattatat	180
ataatagtat attatataat atatatatta tatataatag tattatatat actattatat	240
attatatata ttatatatat ataaaatata atataatata tataatatat aatattaata	300
ttatatatat aatataatat aatatataat ataataatat atatatatta ataaaattat	360
attaatatat aatatataat agtatattat atacatatat aatatatata atatataata	420
t	421